# CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. 220 Broadway, New York, October 31, 1907.

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## CONSTRUCTION NEWS.

### PLANS AND SPECIFICATIONS ON FILE.

*(* denotes that this work is advertised in Engineering News.)*

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### RAILWAYS.

BEAVER VALLEY & NORTHWESTERN.—Chartered in Oklahoma with a capital stock of $4,000,000 to build from Oklahoma City, Okla., to La Junta, Colo., 400 miles, via Beaver City, Okla. The incorporators are J. W. Webb, Ray Barnes, A. F. Rock, J. Blanchard, F. C. Tracy, W. H. Wilhour, Albert Wellborn, H. D. Meese, H. P. Garrett, Elbert Clift, D. M. Kile, W. T. Quinn and J. R. Quinn, all of Beaver City, Okla.

BILOXI GREAT NORTHERN.—We are officially advised that right-of-way has been partly secured and survey partly made for its proposed line. This company is open for propositions to build its line from parties that can use company's bonds. This railway will extend from Biloxi, Miss., north to a connection with the Mobile & Ohio R. R., probably at Bucatunna, Miss., a distance of 100 miles. W. M. Ducate is Pres.; J. B. Chinn, Vice-Pres.; W. Gorenflo, Treas., and I. Heidemheim, Secy. W. L. Covel is Ch. Engr., at Biloxi. Previously noted.

BROKEN BOW & WESTERN.—This company, which was organized last March, has filed articles of incorporation in Nebraska to build from Loup City on the Union Pacific R. R. to Broken Bow on the Chicago, Burlington & Quincy R. R., 40 miles. An alternative line between Broken Bow and Albion, Neb., on the Union Pacific R. R. and C. B. & Q., 115 miles, is named. Stillman P. Groat is Pres., Broken Bow, Neb.

CASSVILLE & WESTERN.—Extensions may be built from Cassville, Mo., east and west. S. M. Mitchell is Gen. Mgr., at Cassville.

CHICAGO, ROCK ISLAND & PACIFIC.—Regarding prospective improvements, as noted on Oct. 10, it is announced that the amounts which it was reported the company would expend at Little Rock, Ark., and other points are too large. Only four storage tracks are being built at Little Rock; at Winnfield some buildings and a yard will cost about $150,000; at Eldorado, $250,000. H. DALHOFF, of Little Rock, has grading contract at Little Rock and Winnfield, Ark. No contract has been let yet at Eldorado. H. G. Clark is District Engr.

CIMARRON & NORTHWESTERN.—Surveys for this road, which is to extend from Cimarron to Ponil, N. Mex., 22 miles, have been finished. Fifteen miles of grading are completed and three miles of track have been laid. The road is to be a freight line with 60-pound rails, 2% maximum grades and 12° maximum curves. The WHITESCARVER CONSTRUCTION CO., of Trinidad, Colo., is the general contractor and MANEY BROS., of Oklahoma City, Okla., are the subcontractors. T. A. Schomburg is Pres., Trinidad, Colo. Previously noted.

CINCINNATI BELT.—We are officially advised that this railway will be built around Cincinnati, Ohio, and will be a double-track line, 20 miles in length, or a total mileage of 40 miles. Capital has been practically obtained. Right-of-way is secured, but survey has not been made yet. The American Engineering Co., of Indianapolis, Ind., is in charge of engineering work. E. E. Williamson, Union Trust Bldg., Cincinnati, is Chn. Previously noted.

COLORADO & SOUTHERN.—An extension is under consideration to be built from Keystone (Dillon post-office), to Montezuma, Colo. E. F. Vincent is Asst. Ch. Engr., Denver, Colo.

EAGLE VALLEY.—Construction is reported to have been commenced on this line which is to extend from Baker City to Eagle Valley and Pine Valley, Ore., about 30 miles. JOHN H. WASHBURN, Baker City, Ore., is the contractor. W. L. Vinson, Baker City, is promoting the project.

EAST ERIE COMMERCIAL.—A charter has been granted this company, with $25,000 capital, to build a line 2½ miles long, from Erie, Pa., south to a connection with the Lake Shore & Michigan Southern Ry. It is proposed also to connect with other lines in Erie. Directors are: M. E. Griswold, Jr., Pres., Erie, Pa.; F. C. Pratt and J. C. Shewin.

GILMORE & PITTSBURG.—Surveys are in progress for a railway from Gilmore, Idaho, on the Lemhi Valley northeasterly about 50 miles, through a pass over the Rocky Mountains, in Beaverhead County to Armstead, Mont. The road is a project of the Gilmore Mining Co., of which W. A. McCutcheon, Gilmore, Idaho, is Mgr.

GUYMON & SOUTHWESTERN.—This company has been chartered in Oklahoma to build a line from Guymon, Okla., east to Englewood, Kan., on the Atchison, Topeka & Santa Fe Ry., and west from Guymon to a connection with the Santa Fe in New Mexico. Capital, $5,000,000. The directors are J. W. Harris, J. G. McLarty, E. C. Langston, J. H. Wright, J. W. Rumage, L. E. Latham, J. L. Eddins, T. O. James and W. C. Crow, all of Guymon; and Jonathan S. Whitehurst, of New York.

IOWA & NORTHWESTERN.—The Carnegie Trust Company has taken first mortgage bonds for $6,000,000 issued by this company which proposes to build from Waterloo to Stanwood, Iowa, 103 miles, via Independence and Anamosa, according to the Des Moines (Ia.) "Capital." Preliminary surveys have been made and locating and construction will begin within 90 days. Stephen B. Howard is Pres., 5 Nassau St., New York; J. F. Lacock is Ch. Engr., Waterloo, Iowa.

KANSAS & TEXAS.—This company was granted a charter in Oklahoma to build a 700-mile railway south from Garden City, Kan., via Guymon, Okla., to Amarillo, Tex., thence southeast to Houston, Tex. Capital, $5,000,000. John S. Barnard, of Boston, Mass., is the principal incorporator, and associated with him are John L. Gilson, C. M. Funk, G. W. Gilson, J. R. McCullough, W. C. Crow and Earl Gilson, of Guymon, Okla.

LLANO ESTACADO.—W. M. Massie, Pres. and Gen. Mgr., Floydada, Tex., states that the proposed line is to be built from Floydada northwest about 30 miles to a connection with the Canyon City-Plainview branch of the Atchison, Topeka & Santa Fe Ry. The company is not yet ready to let contract, but it is expected to have about 30 miles in operation within ten months. A. B. Axtell is Ch. Engr., Canyon City, Tex. Noted last week.

*MISSOURI & NORTH ARKANSAS.—This company has 650,000 cu. yds. of side borrow and three miles of pile trestle to let on 28 miles of its extension between Kensett and Cotton Plant, Ark. W. S. Dawley, Ch. Engr., 820 Security Bldg., St. Louis, Mo.

NORTHERN RAILWAY OF MAINE.—Edson E. Goodrich, Pres., 27 Elm St., Waterville, Me., states that it is the intention to begin construction on this road about May 1, 1908. The line has not yet been surveyed and no contracts have been let. The road will be built to handle lumber and farm products principally. Maximum curves will be 6° and the maximum grades 1½%; 80-pound rails will be used. Noted fully on Oct. 10.

OKLAHOMA CENTRAL.—F. C. Hand, Ch. Engr. Const., Purcell, Ind. T., states that 50 miles of track have been laid this year from Byars, Ind. T., westward. The line, when completed from Lehigh to Chickasha, Ind. T., will be 131 miles. It is now in operation between Lehigh and Blanchard, Ind. T., 108 miles.

OMAHA, NEWPORT & NORTHERN.—Organized in South Dakota, with a capital stock of $8,000,000, to build a railway from Omaha, Neb., to a point in central South Dakota. Clarence A. Miller, of Minneapolis, Minn.; T. W. Goodner and M. P. Goodner, of Pierre, S. Dak.; Ephraim Banning, Pierson M. Banning, Thomas C. MacPhilion and Oscar W. Boyd, of Chicago, are incorporators. The proposed line is to traverse the counties of Douglas, Washington, Dodge, Colfax, Platte, Bowen, Wheeler, Holt and Rock, in Nebraska.

UNION CENTRAL.—James A. Lucas, Secy.-Treas., Edgewood, Tex., writes us that contracts will be let for construction work in the early spring of 1908. As noted on Oct. 10, W. J. Hogue, Pres., Dallas, Tex., announces that this company, recently chartered, proposes to build a railway from Dallas, Tex., to New Orleans, La., 500 miles, the mileage in Texas being 225 miles and in Louisiana 275 miles. The route is by way of Palestine and Nacogdoches, Tex., and Pickering, La. There will be a branch from Wortham to Tyler, Tex., 125 miles, which has been surveyed for the entire distance and graded from Wortham to the Trinity River, 20 miles. The main line is under survey from Dallas to the Louisiana state line. It is expected to let contracts for construction in about 60 days, however, according to President Hogue.

WATERLOO, PELLA & SOUTHWESTERN.—E. A. Harris, First Vice-Pres. and Gen. Mgr., Pella, Iowa, advises us that the proposed railway will be a standard-gage line, 120 miles long, extending from Waterloo to Chariton, Iowa, via Traer, Toledo, Tama, Sheridan, Grinnell, Sully, Pella, Howell, Durham, Attica and Chariton. Survey has been made from Sully to Durham, 25 miles, and the line is under survey from Durham to Chariton, 45 miles. Construction contracts will not be let before next spring. B. F. Keables is Pres., and T. L. Blank, Ch. Engr., both at Pella, Iowa. Noted previously.

WICHITA, CLEVELAND & GULF.—R. L. Lunsford, Cleveland, Okla., advises us that capital for construction and right-of-way are partly obtained for building this line, which was recently incorporated in Oklahoma, from Wichita, Kan., via Cleveland, Okla., to Port Arthur, Tex., 634 miles, passing through Sedgwick, Butler, Cowley and Chautauqua Counties, in Kansas; the Osage Reservation and Pawnee County, in Oklahoma; the Creek, Cherokee and Choctaw Nations in Indian Territory; and the states of Arkansas, Texas and Louisiana. Surveys are partly made. Date for letting construction contracts not yet determined. Capital stock, $50,000,000. David Ratner, of Cleveland, Okla., is Pres.

## ELECTRIC RAILWAYS.

BAR HARBOR, ME.—Robert Amory, Secy. of Bd. of Directors of the Mount Desert Transit Co., 258 Washington St., Boston, advises us that construction contracts will not be let until next spring for building the proposed line from Ellsworth to Bar Harbor and Southwest Harbor, Me., about 40 miles. Surveys are partly made. Right-of-way has not been entirely secured yet. John S. Kennedy is Pres., 32 Nassau St., New York. W. E. Baker & Co., 27 William St., New York, are the Engrs.

MIDDLETOWN, CONN.—The Consolidated Ry. Co. will construct an extension from Middletown to Hartford next spring. The line now connects Middletown and Portland, twelve miles. An extension will be built soon from Middletown to Middlefield. C. H. Chapman is Supt., Middletown.

MILBURN, N. J.—The Morris County Traction Co. may build a line from Milburn to Maplewood. F. H. Alleman is Mgr., Summit, N. J.

DONORA, PA.—The stockholders of the Donora & Eldora St. Ry. Co., which was recently formed to construct a line from Donora to Eldora, a distance of about seven miles, held a meeting in Pittsburg recently, at which Dr. B. M. Hanna, 718 Penn St., was elected Pres. by the Bd. of Directors; William M. Galbraith, Frick Bldg. Annex, Vice-Pres., and R. W. Hervey, Secy. and Treas., all of Pittsburg. The company has taken up the entire right-of-way, and as the stock has been practically all sold, it is the plan of the company to build the line at once, having it in operation early in the spring.

WEST NEWTON, PA.—The Pittsburg & Westmoreland Ry Co. will soon begin construction on the line connecting West Newton with Herminie and Irwin. James Bryan is Ch. Engr., Park Bldg., Pittsburg. Manning Stires is Pres., 141 Broadway, New York.

MONONGAHELA, PA.—A franchise has been granted to the Monongahela & Carroll St. Ry Co., a new corporation which proposes to build an electric line up Pigeon Creek and on to Bentleyville, Ellsworth and Washington. For the privileges granted the company agrees to pave streets in which the line is laid. The ordinance must be accepted within 30 days after charter has been granted, and the company must file a trust company bond in the sum of $5,000 to complete and place in operation this railway within a period of two years from the date of securing its charter.

LEWISBERRY, PA.—The Lewisberry & Strinestown St. Ry. Co. has secured the right to build an extension from near New Market, York County, to Harrisburg via New Cumberland. The Susquehanna River will be bridged at New Cumberland. This will be the final link in the proposed system connecting Harrisburg and York by electric railway, the new company connecting below New Market with the York County Traction system and at Harrisburg with the Central Pennsylvania Traction Co., and Valley Traction Co. Surveys have been completed, it is said. The plans call for a high-speed line. David Pepper, Jr., Land Title Bldg., Philadelphia, is Pres. of the company, and E. R. Sponsler is the Harrisburg representative.

AMBRIDGE, PA.—The French Point St. Ry. Co. has increased its capital stock from $6,000 to $31,200, and will build an extension from Merchant and Wagner Sts., Ambridge, Pa., to a point on the right-of-way of the Economy Belt Line Railway. James D. Collery is Pres.

SHAMOKIN, PA.—The Governor has approved the extension of the Shamokin & Edgewood Elec. Ry. Co., from Shamokin to Sunbury, via Snydertown, 18 miles. M. H. Kulp is Pres., Jerome Reed is Supt., Shamokin.

BRACKENRIDGE, PA.—The Saxonburg, Tarentum & Butler St. Ry. Co. is reported to have accepted the franchise granted some time ago by the Council of Brackenridge for the right-of-way through the town.

CORRY, PA.—C. P. Northrup, Pres. of the Corry & Columbus St. Ry. Co., states that 15 miles of track will be built during the next season. A lighting plant may be installed by the company.

PHILADELPHIA, PA.—New York and Philadelphia capitalists have secured control of the Philadelphia, Delaware & Montgomery R. R. Co., which was formed in April, 1906, with a capital of $140,000. The new owners will at once undertake the construction of the first section of this proposed 14-mile electric line from LaFayette station on the Schuylkill Valley division of the Pennsylvania Railroad to a point on the Delaware River in Delaware County. It is proposed to build a tunnel under the river at this point and connect either with the Pennsylvania's electric line at Woodbury or construct a separate road to Atlantic City. It is estimated that it will cost $2,000,000 to build the tunnel and it is possible that a ferry service across the river will be established instead. As now planned two main power stations will be built, one at the du Pont farm, Tinicum Township, which the company owns, and the other at Lincoln Park. Eight substations also will be built along the line. The names of the new owners have not been made public. The original incorporators are: Peter J. Hughes, Edward L. Graham, Charles T. Maginnis, Bernard A. Hughes, Samuel J. Dallas, John M. Bradley, Charles H. Harvey, J. Robert Whitely, Thomas F. Daly; and George W. Emlen, trustee.

BLOWING ROCK, N. C.—C. M. Miller, of Salisbury, N. C., Engr.-in-Charge, advises us that the Lenoir & Blowing Rock Turnpike Co. has raised $90,000 for a macadam road from Lenoir to Blowing Rock, a distance of 25 miles, but has decided to raise an additional amount with which to build an electric railway instead. Most of this money has already been raised and a new company will be organized and officers elected within 30 days, when surveys will be started. Engines of a mountain-climbing type will be used.

ASHEVILLE, N. C.—The proposed new electric line between Asheville and Hendersonville, which has been in contemplation for some time, has now assumed definite shape, it is reported. The preliminary survey has been made, the right-of-way secured and it is expected that the work of construction will begin at an early date. C. F. White is Treas., and J. D. Murphy is Pres. of the company. The country which the new road will traverse is a rich agricultural section.

TAMPA, FLA.—The Tampa & Sulphur Springs Traction Co. may increase its capital stock from $100,000 to $300,000 to build its proposed extensions. The directors are A. W. Swann, Eugene Holtsinger, Josiah Richardson and Dr. F. W. Inman. L. Brill is Mgr.

NEW ORLEANS, LA.—Bids are asked until Dec. 11 by Chas. R. Kennedy, Comptroller, for a 39-year franchise, beginning June 30, 1912, to construct, maintain, and operate an electric street railway through several streets, including St. Bernard Ave. and Broad St.

NEW IBERIA, LA.—The Bayou Teche Electric Light & Ry. Co. has given out contracts for the construction of the electric road within the city limits and to Jeanerette. P. M. Schneideau is Pres.

PADUCAH, KY.—We are officially advised that the Paducah Southern Traction Co. will build a line from Paducah to Mayfield, Ky., 28 miles in length. The AMERICAN ENGINEERING CO., of Indianapolis, will begin survey about Nov. 15. No contracts will be let until engineering work is completed. Right-of-way is obtained and capital is partly secured. H. H. Loving, Paducah, is Pres.

SOUTH BEND, IND.—At a recent meeting of stockholders of the Indianapolis, Logansport & South Bend Traction Co., organized to build an interurban line from Logansport to South Bend, the following directors were chosen: Horace J. Crismond and J. G. Power, of Logansport, Ind.; Prof. Jerome J. Greene, of Notre Dame; Samuel S. Perley, Alexis Coquillard, Virginius Nicar, E. P. Taylor, Hugh H. Tansey and T. P. Moredock, of South Bend. Officers were elected as follows: S. S. Perley, Pres.; V. Nicar, Vice-Pres.; T. P. Moredock, Secy-Treas.

GRAND RAPIDS, MICH.—The Grand Rapids Electric Ry. Co., of Grand Rapids, probably will let contracts for the construction of its line between Grand Rapids and Saginaw and Bay City, soon. The line will be 157 miles long, passing through Greenville, Langston, Stanton and Alma. Surveys have been finished and right-of-way and capital secured. The work will be largely gravel and sand loam. Both electricity and steam will be used on this road. J. W. Boynton, Grand Rapids, is Pres. and George W. Doane, Ch. Engr. C. J. Post is Secy., 267 Terrace Ave., Grand Rapids.

ISHPEMING, MICH. — The Marquette County Gas, Light & Traction Co. will soon place contracts for the construction of three miles of track. The company is planning to purchase equipment. Noted on Oct. 10.

OWOSSO, MICH.—J. A. Thick, representing the Saginaw, Owosso & Lansing Elec. Ry. Co., has applied for a franchise to operate an electric railway in Owosso. This is a renewal application of a franchise formerly granted to this company which recently became inoperative on account of the expiration of the time limit. The new franchise provides that construction on the line shall be started within 18 months.

ELGIN, ILL.—Right-of-way is being secured and arrangements made for the construction of the proposed Woodstock, Marengo, Genoa & Sycamore Electric Railway which is to connect Woodstock and Sycamore, Ill., by way of Marengo and Genoa. The promoters of the company are: M. W. Powell, Pres.; Directors, John A. Schmidt, Thomas Edward, Irwin D. Stevens, Charles A. Spenny, T. H. Rhodes, E. C. Spinney and E. B. Harang.

CHICAGO, ILL.—On Oct. 16, the council committee on state legislation of the Chicago City Council completed the draft of a statute to compel the electrification of all railroads entering the city using steam as the motive power. The statute is recommended for enactment as a state law and provides that in all cities having a population of more than 200,000 steam operated lines must be converted for operation by electricity, compressed air or other power which does not require steam or combustion on the locomotives. The change must be made within three years after the law goes into effect, the railroads being liable to a fine of $500 per day for each locomotive operated by steam after that date. Plans for the change must be submitted to the city authorities by the railroad companies within six months after the passage of the law.

CHICAGO, ILL.—The Calumet Elec. St. Ry. Co., now operating 80 miles of electric railway in Chicago, has applied to the City Council for a consolidation of all of its franchises under one general franchise with a 20-year limit. The company is now operating under grants which expire at various dates between 1909 and 1919. H. M. Sloan is Gen. Mgr.

PONTIAC, ILL.—H. A. Fisher, J. M. Raymond and J. K. Newhall, officials of the Joliet & Southern Traction Co., of Joliet, Ill., have secured control of the Bloomington, Pontiac & Joliet Elec. Ry. Co., of Pontiac, and will take steps to extend the line south to Bloomington and north from Dwight to Joliet. It is stated as doubtful that any actual construction work will be done this fall, but all details of securing right-of-way, franchises, etc., are to be arranged during the fall and winter in readiness for an early beginning of work in the spring. It has not yet been decided whether the single-phase system now in operation between Dwight and Pontiac will be adopted under the new management or whether it will be replaced with the direct-current system. This matter is now under advisement and a decision will be made public later. At a recent meeting of the stockholders, held for the purpose of ratifying the transfer of the road to the Fisher syndicate, the resignations of J. A. Carothers, Pres., and A. C. Folsom, Secy., were accepted. H. A. Fisher was elected Pres., John K. Newhall, Secy., and L. D. Fisher, Gen. Mgr. The capital stock is to be increased to $2,500,000.

WATERLOO, IOWA.—C. D. Cass, Gen. Mgr. of the Waterloo, Cedar Falls & Northern Ry. Co., states that about two miles of track will be laid in Waterloo during 1908. A new fireproof car barn, 70 × 200 ft., costing approximately $10,000, will be erected in Waterloo, to replace the one recently destroyed by fire.

MINNEAPOLIS, MINN.—The Minneapolis, St. Paul, Rochester & Dubuque Traction Co. has engineers surveying the permanent route of its line through Clay County, Iowa. As surveyed the line will reach Dubuque by way of Postville, Garnerville and Elkport.

THERMOPOLIS, WYO.—S. A. Broadwell, of Omaha, Neb., has secured a franchise to construct an electric railway in Thermopolis and to mining towns in the vicinity. It is expected to begin construction within 90 days.

MEXICO, MO.—Preliminary work for the proposed electric railway from Mexico to Memphis, Mo., is progressing. W. M. Pickett, Shelbyville, Mo., is Pres.; Charles S. Huston is Treas., at Baring, Mo.; and J. H. Watkins is Secy. at Memphis, Mo.

ENNIS, TEX.—Daniel Quill and W. J. Newcomb, of Terrell, Tex., are interested in a proposed railroad from Ennis to Waco, Tex.

OKLAHOMA CITY, OKLA.—The Oklahoma Electric Terminal Co. has applied to the City Council through John W. Shartel, Vice-Pres., and Gen. Mgr. of the Oklahoma City St. Ry. Co., for a franchise to build an elevated railway for the use of all interurban electric railways entering Oklahoma City.

This company has been granted a franchise in Edmond and will build an extension from Britton to Edmond, seven miles.

PLATTEVILLE, COLO.—E. N. Reaser, Pres. of the Interurban Construction Co., which proposes to build an electric line connecting Denver and Greeley, Colo., has opened negotiations for a franchise in Platteville.

DENVER, COLO.—Grading work on the Greeley & Denver Interurban Ry., which will extend from Denver to Greeley, will commence within 30 days, it is said. George H. Sethman, 404 Kittredge Bldg., Denver, is Engr. The electric line will be built by the Interurban Construction Co., which was incorporated several months ago. A power plant may be built at Firestone, seven miles from Fort Lupton, in which event a branch line will be built from Fort Lupton to the site of the plant.

MANITOU, COLO.—C. W. Stiff, of Colorado Springs, C. E. Pond, of Colorado City, and Dr. Newton N. Brumback, of Denver, have purchased from the Pike's Peak Hydro-Electric Co. the cable railway running from the company's plant in Manitou to the top of the mountain to the west, which forms one of the foothills of Pike's Peak. They are said to be organizing a company to build a scenic railway up the mountain. About $50,000 will be expended, and it is planned to have the road in operation next summer. The company will be capitalized at $200,000. Electricity will be used as the motive power, and cars of special design will be employed in the transportation of passengers. The railroad will be double-tracked. The cars will be operated by means of a heavy cable. The maximum grade is 62½ per cent. G. A. Teft, Colorado Springs, is Pres. and Gen. Mgr. of the Pike's Peak Hydro-Electric Co.

CHEHALIS, WASH.—The City Council of Chehalis has granted a franchise to B. J. Weeks and his associates under the name of Centralia & Chehalis Electric Railway & Power Co., for an electric railway in that city and between Chehalis and Centralia. As noted on Sept. 5th, "the City Council of Centralia has granted the Centralia & Chehalis Electric Ry. & Power Co. a franchise to construct an electric railway between Centralia and Chehalis. The franchise is for 50 years. A cash deposit of $1,000 provides for work to be commenced within three months, and completion of the work within a year." S. A. D. Eaton, Centralia, is interested.

SEATTLE, WASH.—The Seattle & Tacoma Short Line has been incorporated in Washington to build an interurban railway from Seattle to Tacoma, 30 miles. This is the line for which Merle J. Wightman and C. E. Muckler have been securing franchises in Seattle and Tacoma. Preliminary surveys have been made and most of the private right-of-way secured. Construction work has been begun in Pierce County near Tacoma by the building of about 200 ft. of trestle and other active construction work will be started as soon as the remaining right-of-way has been secured. The line is to be double-tracked the entire distance. The company has options on 1,000 acres of land near Tacoma, which it proposes to develop in connection with its interurban line. Offices have been opened in the American Bank Bldg., Seattle, and in the P[illegible] Bldg., Tacoma. Capital stock, $[illegible]. Incorporators: Merle J. Wightman, [illegible] E. Muckler and F. J. Eitel. The [illegible] company are John H. McGr[illegible] of the [illegible]deau, Ira Bronson, Henry [illegible] I. A. Nahoun, Denny & Ewing; Joseph [illegible] of Caltel, F. W. Baker, P. C. K[illegible] F. J. [illegible]coma; Henry Hewitt, Jr., of [illegible] of Tawheeler, F. H. Murray, C. [illegible]ma; J. A. [illegible]Coleman Dupont, Wilmington; [illegible]ckler, T. [illegible] A. C. De Graw, of New York; W. [illegible]cke, Jr., of New York; Conrad Hoska, [illegible]coma. L. B. Stillwell, 100 Broadway, [illegible] York, is Consult. Engr.

PORTLAND, ORE.—An exte[illegible] of time in which to construct an el[illegible] railway from Portland to and beyond [illegible]n, Ore., has been applied for by L[illegible]ence, of Portland, who was granted a [illegible]hise for this purpose some months ago. [illegible]ature of the new franchise is the sug[illegible] that a "common user" clause be in[illegible] in the grant. It also specifies 25 ft. [illegible] of 20 ft. for the right-of-way, in or[illegible] to allow for a double track.

HANFORD, CAL.—An applic[illegible] for a franchise for an interurban sy[illegible] of electric railways has been filed with [illegible] Board of Supervisors by F. S. Gran[illegible] of Denver, who appeared before the bo[illegible] in company with his attorney, H. [illegible]. of Hanford. A loop would be ma[illegible] south to Lemoore.

PASADENA, CAL.—The Pacific Electric Ry. Co. has deposited with the C[illegible] of Pasadena a certified check for $5,000, being payment for the privilege of double-tracking its lines in that city. The work must be completed within 60 days from the date of starting to double track the lines. The company has until next April in which to commence the work, although it may be started this fall. J. B. Rowray is Supt., at Pasadena.

SACRAMENTO, CAL.—A. D. Schindler, Gen. Mgr. of the Northern Electric Co., announces that his company will not begin building to Red Bluff and Colusa until the money market is easier. The trustees of Colusa have granted an extension of time to the company for its franchise in that town. Noted fully on Oct. 10th.

VALDEZ, ALASKA.—Construction on the Alaska Home Ry. Co.'s proposed electric line from Valdez, Alaska, north to a point in Copper County, 180 miles, has been suspended and 400 men are laid off, according to a press statement. As noted on Aug. 29th, this company was organized in Valdez to build an electric railway from that city to the Copper River district. The project was planned and managed by H. D. Reynolds, of the Reynolds-Alaska Development Co., which owns mines in that section. Mr. Reynolds recently purchased the Alaska Coast Co. He plans installing a fast twice-a-week service between Seattle and Sound points, and will erect a smelter at Latouche, Alaska, with a daily capacity of 1,000 tons.

## LIGHT AND POWER PLANTS.

(* *denotes that this work is advertised in Engineering News.*)

ADAMS, MASS.—The Selectmen have granted the Berkshire Street Ry. Co. permission to erect poles for its high-tension line from Pittsfield to the Zylonite power station. The contract for the work has been awarded to FRED T. LEY & CO., of Springfield, at $65,000.

DANIELSON, CONN.—The New York, New Haven & Hartford R. R. Co., New Haven, Conn., is to make changes in its machinery equipment in the Danielson power house, otherwise known as Dyer Dam. There will be the substitution of 11,000 volt, 25-cycle 3-phase equipment for the 11,000-volt 60-cycle 3-phase equipment now in use, the substitution being made for the purpose of operating the power house in parallel with the 25-cycle power in its Norwich power house. W. S. Murray, New Haven, is Electrical Engr.

CASTILE, N. Y.—The proposed dam to be constructed across East Koy Creek to develop power for electricity to supply Castile, Silver Springs and Gainesville will cost from $15,000 to $20,000, it is stated. The company has not been organized, but it is hoped to have the work completed by next spring. James C. Horning is interested.

NEW YORK, N. Y.—The following bids were received Oct. 28 by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, for installing electric equipment in new Public School No. 5 on Tiliary, Lawrence and Bridge Sts., Boro. of Brooklyn: T. Frederick Jackson, 592 Columbus Ave., New York, $15,995; Peet & Powers, 225 Fourth Ave., $16,679; Ries & O'Donovan, 1123 Broadway, $16,439.

ELMER, N. J.—It has been announced that the Elmer Gas Co. will build a plant in Elmer. It is the company's intention to extend mains to Woodstown, N. J., and to supply intervening villages.

DU BOIS, PA.—The City Council, at a recent meeting, awarded JOHN E. DUBOIS, of this city, the contract for lighting the streets with electric arc lamps, commencing Aug. 1, 1908. The contract price is $45 per year for each of the first 100 lamps; $40 each for the next 25 and over. Mr. DuBois states that he will have his plant in operation by that time.

WASHINGTON, D. C.—The plans of the Secretary of Agriculture, for an underground conduit between the Bureau of Engraving and the Printing Building and the new buildings of the Department of Agriculture, in order to furnish energy for electric illumination and heating of the latter buildings, have been approved by the District Commissioners.

SMITHFIELD, N. C.—Bids are asked until Nov. 4 by the Town Commissioners for constructing an electric plant and water and sewer systems. E. H. Brooks is a Comr.

AMERICUS, GA.—The Americus Railway & Light Co. will commence work soon on the construction of its power plant. The company has purchased the old gas and electric lighting plant in Americus, but will erect the new buildings in another part of the city and install new and more powerful machinery.

EUNICE, LA.—According to the New Orleans "Picayune," the City Council of Eunice has granted a franchise to Charles Lauve, of Franklin, for an electric light plant. The expenditures will be about $30,000, which will provide a plant with power to light the streets, business and private buildings, and for fan service. Warren B. Reid, of New Orleans, will be associated with Mr. Lauve in the construction.

ALLIANCE, OHIO.—The Alliance Gas & Power Co. has awarded a contract to J. G. WHITE & CO., 43 Exchange Pl., New York City, for enlarging and installing new equipment in the power plant here. The equipment will include a 750-HP. steam turbine, new boilers, electrical equipment and switchboards. D. W. Low is Mgr. and Supt.

CORLETT (Randolph post-office), OHIO.—Bids are asked by W. H. Jantzen, Village Clerk, until noon, Nov. 6, for supplying the village with street lighting.

HURON, OHIO.—An electric light plant and water-works to cost about $100,000 will be erected here, it is reported. Dr. W. I. Chamberlain and G. Mead are interested.

ELYRIA, OHIO.—The ELYRIA MILLING & POWER CO. is reported to have secured the contract for lighting the city for ten years at $64 a year for each arc light. The company is to use water power in generating electricity. G. N. Arnold is Pres.

CINCINNATI, OHIO.—Bids are asked until Nov. 14 by the Board of Trustees, Memorial Association of Hamilton County, at the office of Samuel Hannaford & Sons, Archs., Hulbert Block, Cincinnati, for furnishing material and installing light fixtures for the Soldiers' and Sailors' Memorial Building at Grant and Elm Sts. Elias R. Montfort is Pres. of Bd.

BERRIEN SPRINGS, MICH.—Bids are asked by the Village of Berrien Springs until Nov. 4 for construction of a municipal electric light plant. The street lighting system will consist of 25 street lamps and about five miles of wire, etc. A. B. Ayers is Pres. of the Board of Trustees.

TRAVERSE CITY, MICH.—The Manistee River Power Co. has been organized with a capital stock of $1,000,000 with $515,000 paid in. It will build dams on the Manistee River with a capacity of 20,000 HP. Work on the first dam will begin this fall. This will have a capacity of 5,000 HP. and will be used for Traverse City, Elk Rapids and Acme, furnishing power for new industries. The company has purchased the land and the survey is completed.

CARLYLE, ILL.—We are officially advised that it has not been decided when contracts will be let for constructing the proposed addition to the municipal lighting plant. The plant will be operated by steam and will light 50 arc lamps of 1,200 c.p. and 2,500 incandescent lamps at 16 c.p. The city will install one 150-HP. boiler, one 125-KW. direct connected, alternating current unit, and four transformers. George Schilling is Supt.

CAIRO, ILL.—The Cairo Electric & Traction Co. is planning to make improvements to its power plant, and will let contracts for the following equipment: Two turbine generators, 500-KW.; one 300-KW. motor generator set, 2300-volt alternating current to 550-volt direct current; one 200-KW. motor generator set, 2300-volt alternating current to 550-volt direct current. O. C. Macy is Mgr.

EAU CLAIRE, WIS.—It is stated that the Northwestern Lumber Co. has decided to build a high dam on Eau Claire River to develop power for manufacturing purposes.

MINNEAPOLIS, MINN.—Bids are asked at the office of L. A. Lydiard, City Clerk, until Nov. 8, for lighting the streets and avenues of this city with gas and electricity for the year 1908; also for supplying gas for street lamps of the city for the year 1908; bids also will be received for furnishing about 7,000 incandescent gas street lamps.

PLATTSMOUTH, NEB.—The OMAHA ELECTRIC LIGHT & POWER CO., of Omaha, has secured the contract for lighting the city of Plattsmouth. A transmission line, eight miles long, will be built between Omaha and Plattsmouth, and a sub-station will be built. H. A. Holdrege is Mgr., Omaha. W. M. Craig is Ch. Engr.

TEKAMAH, NEB.—The City Council has awarded the contract for installing the electric light plant to BORTENLANGER & CO., of Omaha. The contract calls for a 125-HP. engine, two 70-HP. boilers and a dynamo of 75 KW. capacity.

WAHOO, NEB.—It is proposed to construct water-works and electric lighting systems here to cost between $50,000 and $60,000. The engineer has not been selected. Edward Lehakuhl is Mayor.

CENTRAL CITY, NEB.—An ordinance is before the City Council to grant an electric light franchise to L. S. Jenkins and H. D. Forrest, of Omaha. The ordinance provides at the end of five years the city may, if it desires, purchase the plant at market value to be determined by appraisers. The plant will be constructed at a cost of about $15,000.

ARLINGTON, NEB.—The Arlington Electric Light Co. is contemplating improvements to its power plant, which will include building an addition to the power house and installation of a 130-HP. boiler and an engine of 90 HP. E. L. Kiel is Mgr. and Ch. Engr.

SIOUX FALLS, S. DAK.—The Pierre "Daily Dakotan" states that the State Engineer has received a map of Lake Poinsett, showing the proposed storage dam and controlling works to be built by the Sioux Falls Electric Light & Power Co. The reservoir thus formed will provide an available storage for sufficient water to insure a steady flow of 150 cu. ft. per second during the entire year. J. J. Bennett, Sioux Falls, is Pres.

ROCHFORD, S. DAK.—We are officially advised that in the spring the Montezuma Gold Mining Co. will construct a plant here to cost about $125,000. A permit to secure water power has been obtained by the company and plans have been made for the proposed plant. L. D. Bailor is Secy.

DILLON, MONT.—The Butte-Argenta Mining Co. has bought mining property near the town and has begun development work and improvements. Between $40,000 and $50,000 is to be spent this fall on a water power and electric light plant at the mine with which to operate hoist and other machinery. Work has been started on the ditch which will convey water from Rattlesnake Creek to the power plant, a distance of half a mile. A fall of 75 ft. will be secured and sufficient power to generate electricity to operate all the machinery at the mine.

BURLINGTON JUNCTION, MO.—The Burlington Junction Electric Light & Power Co., recently reported incorporated by D. T. Garrett and others, will erect 1-story brick building at cost of $1,000. Machinery, including gas-producing plant, will be installed at cost of $8,000. The engineer has not been engaged.

AURORA, MO.—The Aurora Light, Power & Refrigerator Co., recently incorporated, will erect a new building and install machinery at a cost of about $25,000. J. R. Woodfill, Jr., is Pres. and Treas.; S. E. Post, Vice-Pres., and J. M. Hawkins, Supt.

MARBLE FALLS, TEX.—C. H. Alexander, of Dallas, Tex., has purchased water power property at Marble Falls and contemplates constructing a 10-ft. dam on top of present natural dam in order to provide for generating additional power, to be transmitted by electricity for operating manufacturing plants.

EL PASO, TEX.—The Southwestern Portland Cement Co. has engaged the Cement Engineering Co., Los Angeles, Cal., to superintend constructing and equipping proposed plant. There will be 14 buildings with an aggregate floor space of 80,000 sq. ft. The equipment of the proposed power plant will consist of two 750-KW., 440-volt, 25-cycle 3-phase generators, either direct connected to cross-compound Corliss engines, or steam turbines, to operate on 175 lbs. gage steam pressure and 125 degrees superheat. The plant will be motor driven throughout, motors being direct connected to all the large size grinding machines. L. D. Gilbert is Secy. of the Cement Engineering Co.

ELGIN, TEX.—A. B. Graham, Smithville, Tex., proposes to establish light, water and ice plant, investing about $60,000.

BADITO, COLO.—The Southern Colorado Power Co. has been incorporated to construct a reservoir and water power plant on Huerfano River at Badito. The plant will have a capacity of about 10,000 HP. and will supply electricity to the towns and mines in the vicinity of Badito. It is probable that the company will furnish electric energy to operate the mines of the Colorado Fuel & Iron Co.

CHEWELAH, WASH.—The City Council has awarded the contracts for the electric plant, wire and electric fixtures to the FAIRBANKS, MORSE & CO., Franklin and Monroe Sts., Chicago, Ill., and 12-in. water pipe to the WASHINGTON PIPE & FOUNDRY CO., The Council has rejected the bids on the power house, which, with the excavation and refilling for the pipe line, will be done under the supervision of the Council.

ST. JOHNS, ORE.—The site of the Portland Shipbuilding Co. has been acquired by W. B. Streeter, Failing Bldg., Portland, Ore. It is intended to construct a gas plant for the St. Johns Gas Heating & Lighting Co. An option has been taken and work will start on the erection of the plant soon. The cost will be $35,000, exclusive of mains.

EUGENE, ORE.—The Pacific Light & Power Co., of Junction City, is considering the construction of a power plant at Triangle Lake, about 30 miles west of Eugene, and will extend its transmission lines to Eugene, Corvallis and Junction City.

SANTA ROSA, CAL.—The Snow Mountain Water & Power Co. has petitioned the Board of Supervisors for permission to erect 25 additional lines through Sonoma County, to be feeders from the main wires. Among the places to be touched by these wires will be Sebastopol, by the way of Forestville; Trenton, Fulton, the Todd District, Guerneville and all the country adjacent thereto; Sonoma, Windsor, Occidental, Molino, Duncan's Mills, Bodega Corners, Bloomfield, Valley Ford, Two Rocks, Penngrove, Danman's Station, Tomales, Marin County.

LOS ANGELES, CAL.—The City Council has awarded contract for electric generator and transformers for Cottonwood Creek hydro-electric plant to WESTINGHOUSE ELECTRIC & MFG. CO., Westinghouse Bldg., Pittsburg, Pa., at $18,039, over the bid of Crocker-Wheeler Co., Ampere, N. J., of $17,400.

SAN DIEGO, CAL.—The San Diego Electric Ry. Co. is planning to construct a power plant to cost about $25,000. B. M. Warner, San Diego, is Supt.; H. MacNutt is Ch. Electrician.

LEWISTON, IDAHO.—The Washington-Idaho Light & Power Co. has been awarded contracts by the city councils of Uniontown and Colton for furnishing the towns with electric energy for lighting and for pumping city water. The company has secured a 25-year franchise to erect transmission lines on the streets of the towns. The extension of the company's lines will involve an expenditure of about $25,000. The addition of Uniontown and Colton makes ten cities that are served with electricity by the Washington-Idaho Light & Power Co. These towns, with Genesee, Moscow and Pullman, receive power from the water power plant of the Lewiston-Clarkston Co. of Asotin, while Palouse, Garfield, Oakesdale, Farmington and Tekoa receive their service from the Post Falls plant. J. J. Jennings, Lewiston, is Supt. and Ch. Electrician of the Lewiston-Clarkson Co.

SACKVILLE, N. B.—The Electric Light & Telephone Co. will extend its lines two miles north to Upper Sackville. The plant will be reconstructed and two dynamos will be installed, raising the voltage from 220 to 2,200. A. W. Bennett is Mgr.

MONTREAL, QUE.—Bids are asked by the City Council, until Dec. 1, for supplying gas and electricity for illuminating and heating for public and private use.

WATERLOO, ONT.—The contract for constructing a gas holder has been awarded to EDWARD DERMUL at $2,025. The bid of the KERR MURRAY MFG. CO for the delivery and erection of one inner section gas holder at $4,950, has also been accepted.

HAMILTON, ONT.—At a recent meeting of the Board of Works, P. W. Sothmann, Ch. Engr. of the Hydro-Electric Power Comn., submitted a report of the cost of installing an electric light system in Hamilton, with a conduit system in the center of the city. Mr. Sothmann estimated that a 4-duct system would cost $57,148, and the total cost of 4-duct system and 500 magnetite arc lamps with the necessary equipment was estimated at $175,580. A 2-duct system would be $900 less. The cost per lamp, according to the former system, was $51.03 a year, and for the 2-duct $49.70 a year. He also submitted figures showing the cost of six, eight, twelve and sixteen ducts. Mr. Sothmann estimated that a plant could be placed in operation within one year, and also said that the Hydro-Electric Power Commission would be in a position in a few days to state when power could be delivered from Niagara Falls. Hon. Adam Beck is Chn. of Comn.

MILLE ROCHES, ONT.—A proposition for the development of water power at a cost of $20,000,000 at Mille Roches on the St. Lawrence River has been laid before the International Waterways Commission by the St. Lawrence Power Co., Ltd., Mille Roches, and the Long Saulte Development Co. The former company proposes to spend $5,000,000, having already expended $1,000,000, and the latter, an American company, is to invest $15,000,000. The company will develop power at the lower end of Barnard Island with the help of the American company, which is building a dam at the head of the island. It was said that the plan would improve navigation, enabling steamers to run at full speed up the river. W. L. McFarlane, Mille Roches, is Supt. of the St. Lawrence Power Co., Ltd.

VANCOUVER, B. C.—The Alaska Perseverance mine will be run by electricity and H. D. Berridge, 11 Old Broad St., London, England, has arrived here to make the necessary arrangements. At first 40,000 HP. will be generated, but only 12,000 HP. will be required for the mine, the balance of the electrical energy being transmitted to Silver Bow Basin for use in the mines there.

## BRIDGES.

*(* denotes that this work is advertised in Engineering News.)*

HEMPSTEAD, L. I., N. Y.—We are officially advised that the bids received Oct. 18 by John H. O'Brien, Comr. Water Supply, Gas and Electricity, New York City, for constructing piers for two bridges over the Wantagh Stream and to do certain grading of Seaman's Road, were as follows: Andrews Bros., $7,284; William Ficklen Co., $7,486; Daniel Douglass, $14,160; the Abbot-Gamble Co., 32 Broadway, $9,746; Phoenix Construction Co., 41 Park Row, $9,481; Russell Contracting Co., 156 Fifth Ave., $8,432; Dorlan & Kennedy, $7,715; the Stobaugh Burns Construction Co., $10,642; Walten M. Bristow, $7,435. William C. Cozier is Deputy Comr.

PITTSBURG, PA.—Bids will soon be asked for the construction of a foot-bridge over the Graham St. crossing. Charles B. Price is Chn. Bd. County Comrs.

PHILADELPHIA, PA.—The Lowest bid opened Oct. 23, by the Survey Bureau, for the construction of a bridge over Twelfth St., was that of Thomas F. Riley at $51,898. Other bids were: Armstrong & Latta, $53,500; M. & J. B. McHugh, $63,891; Richard Walsh, $58,000; James McGraw & Co., $57,197; McGaw & Gray, $58,200; Mack Paving Co., $61,462; Filbert Paving & Construction Co., $84,416; J. F. Stanley & Co., $52,000; J. A. Kelly, $63,900; Eastburn & Chiles, $54,700.

The Richard Walsh Co. submitted the lowest bid for the construction of two bridges over Frankford Creek, at $102,000. Other bidders were: McGaw & Gray, $107,900; John McMenamin, $113,500; J. A. Kelley & Co., $134,500; David Peonies, $109,300; Reilly & Riddle, $124,900; Mack Paving & Construction Co., $139,636; Filbert Paving & Construction Co., $149,900; Thomas F. Riley, $124,975; Eastburn & Chiles, $132,000, and James McGraw & Co., $157,000.

WILLIAMSPORT, PA.—The contract for erecting the river bridge from the island to the mainland near Antes Fort, has been awarded by the Board of Public Grounds and Buildings, Harrisburg, to the YORK BRIDGE CO., York Pa., at $54,945.

WASHINGTON, N. C.—Bids are asked until Nov. 4 by the Beaufort County Commissioners, Gilbert Rumley, Clk., for the construction of two bridges in Beaufort County.

GEORGETOWN, S. C.—Bids are asked until Nov. 20, by J. B. Johnson, Superv. of Georgetown County and by the Supervisor of Williamsburg County, Kingstree, S. C., for the construction of a steel draw-bridge over Mingo Creek.

ALEXANDRIA, LA.—Bids probably will soon be asked for the construction of a steel bridge over Bayou Rapids at Hynson Place. S. W. Sylvester is City Engr.

TROY, OHIO.—Bids are asked until 10 a. m., Nov. 12, by E. E. Pearson, County Audr., for the construction of the superstructure of a steel highway bridge over Stillwater River, near West Milton.

CINCINNATI, OHIO.—Bids are asked until noon, Nov. 15, by the Commissioners of Hamilton County, Fred Dreihs, Clk., for repairing the bridge over Big Miami River near New Baltimore, Crosby Township.

HAMILTON, OHIO.—Bids are asked until 10 a. m., Nov. 12, by Chr. Pabst, County Audr., for the construction of a concrete substructure of a bridge over Two Mile Creek on the Seven Mile pike.

CLEVELAND, OHIO.—A modern lift bridge with a 90-ft. span will be erected immediately by the Erie R. R. Co., to replace the old structure which was demolished by a collision on Oct. 21. F. A. Howard is Bridge Engr. Erie R. R. Co.

NEW CASTLE, IND.—The PAN-AMERICAN BRIDGE CO. has been awarded the contract for a 90-ft. span bridge by the County Commissioners of Henry County, at $4,500.

INDIANAPOLIS, IND.—The Chicago, Indianapolis & Evansville Ry. Co. contemplates building a bridge across White River at Oilphant. Details regarding this railway were given under Railways on Oct. 17th.

*THIEF RIVER FALLS, MINN.—Bids are asked until noon, Nov. 6, by Lars Backe, City Clk., for building an iron bridge across Red Lake River.

WICHITA, KAN.—Bids are asked until 5 p. m., Nov. 4, by R. N. Dorr, City Clk., for the construction of a concrete arch bridge across the Wichita Drainage Canal.

*KENSETT, ARK.—The Missouri & North Arkansas R. R. Co. has 650,000 cu. yds. of side borrow and three miles of pile trestle to let on 28 miles of its extension between Kensett and Cotton Plant, Ark. W. S. Dawley, Ch. Engr., 820 Security Bldg., St. Louis, Mo.

WHARTON, TEX.—Bids are asked until noon, Nov. 11, by G. S. Gordon, County Judge, Wharton County, for the construction of a steel highway bridge over the San Bernard River.

HUMBLE, TEX.—The contract for the construction of a steel bridge across the San Jacinto River has been awarded to A. N. FITZGERALD, Houston, Tex., at $10,176.

WACO, TEX.—Bids are asked until 10 a. m., Nov. 1, by the Commissioner's Court of McLennan County for the erection of five steel bridges. W. C. McCollum is County Audr.

GREELEY, COLO.—CHARLES D. SHEELEY, 219 McPhee Bldg., Denver, Colo., has been awarded the contract by the County Comrs. for the construction of the cement and steel bridge at the Oak St. crossing of the Poudre River, at $5,965.

PORT ANGELES, WASH.—Bids are asked until 10 a. m., Nov. 1, by N. M. Harkins, County Audr., for covering the Upper Elloha bridge, at McDonald.

PORTLAND, ORE.—Bids are asked until 4 p. m., Nov. 29, by A. L. Barbour, City Audr., for the construction of a reinforced concrete bridge across Sullivan's Gulch at East 28th St. Douglas W. Taylor is City Engr.

LOS ANGELES, CAL.—We are officially advised that the bids received Oct. 14 for the construction of the Seventh St. bridge across the Los Angeles River, were as follows: Robert Beyrle,, 223 West Second St., Los Angeles, $78,404; Union Iron Works, Palmetto and Molino Sts., Los Angeles, $79,532. C. Leonardt, H. W. Hellman Building, Los Angeles, $89,783; Atlantic Gulf & Pacific Co., H. W. Hellman Bldg., Los Angeles, $94,534; Mercereau Bridge & Construction Co., $95,444; Burrell Bridge & Construction Co., 11 Front St., San Francisco, $101,188; Cotton Bros. & Co., Monadnock Bldg., San Francisco, $102,078; Thomson Bridge Co., 174 Spear St., San Francisco, $107,869; Pacific Construction Co., 17 Spear St., San Francisco, $112,765; Melville Sheldon, $119,691. Homer Hamlin is City Engr.

PINOLE, CAL.—Bids are asked until 10 a. m., Nov. 4, by J. E. Rodgers, Clk. Bd. of Supervisors, Martinez, Contra Costa County, for the construction of a bridge across Pinole Creek, on Tennent Ave.

FAIROAKS, CAL.—The contract for the construction of a steel bridge here was awarded by the Board of Supervisors of Sacramento County to the WESTERN BRIDGE & CONSTRUCTION CO. Estimated cost, $68,750.

COLUSA, CAL.—J. M. PEART & SON have been awarded the contract by the County Commissioners for the construction of a wooden trestle as an extension to the Hannum bridge in South Colusa County.

The WESTERN PACIFIC BRIDGE & CONSTRUCTION CO. received the contract for the construction of five steel bridges at various points, at $7,727.

SAN LUIS OBISPO, CAL.—Bids are asked until 10 a. m., Nov. 5, by the Board of Supervisors for the construction of a steel bridge, 10-ft. span, built on concrete abutments.

RATHDRUM, IDAHO. — CARSCALLEN BROS., Coeur d'Alene, have been awarded the contract by the County Commissioners for an all-steel span bridge across the Spokane River at Heuter, at $5,250.

PANAMA.—List of bids opened on Oct. 24 for steel bridge is given under U. S. Possessions and Cuba.

## BUILDINGS.

*(* denotes that this work is advertised in Engineering News.)*

*WALDOBORO, ME.—Bids are asked until 3 p. m., Dec. 5, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for construction, except plumbing, electric wiring and conduits, of the extension to the U. S. post-office and custom-house, Waldoboro.

NEW YORK, N. Y.—Bids are asked by C. B. J. Snyder, Supt. of School Bldgs., Dept. of Education, until 11 a. m., Nov. 11, for installing heating and ventilating apparatus

of additions to and alterations in Public School No. 140, on the northerly side of 60th St., about 241 ft. westerly from Fourth Ave., Boro. of Brooklyn.

NEW YORK, N. Y.—We are officially advised that GEORGE VASSAR'S SONS & CO., 1170 Broadway, have masonry contract for the 12-story steel frame office and loft building for the Pacific Realty Co., at 12 to 14 West 32d St., which is to be erected at a cost of about $200,000. Other contracts have been awarded as follows: The O'ROURKE ENGINEERING & CONSTRUCTION CO., 345 Fifth Ave., sinking caissons; JAMES J. DUFFY, 535 West 24th St., excavating; JOHN J. RADLEY & CO., 18th St. and East River, iron work. Rouse & Sloan, Archs., 11 East 43d St., are taking estimates on all other contracts.

Albert J. Schwarzler, 1340 Brook Ave., the Bronx, will erect 15 5-story tenements, each 35 x 68 ft., on the east side of Clay Ave., south of 169th St., the Bronx. According to the estimate filed with the plans the structures will cost $390,000.

NEW YORK, N. Y.—We are officially advised that specifications are being prepared for a 6-story apartment house to be built at Broadway and 127th St. for the Charter Construction Co., Henry Edelmuth, Pres. Estimated cost, $125,000. Schwartz & Gross, 35 West 21st St., are Archs.

NEW YORK, N. Y.—We are officially informed that Carrere & Hastings, Archs., Fifth Ave. and 26th St., are preparing plans for a theatre to be built on Broadway, between 46th and 47th Sts. It is probable that the structure will cost $1,000,000. It has not been decided when contracts will be let.

SCHENECTADY, N. Y.—It is stated that the Delaware & Hudson Co. is contemplating construction of a separate station on the north side of Liberty St., Schenectady. At present this company and the New York Central & Hudson River R. R. Co. use the same building in Schenectady. James MacMartin, Albany, is Ch. Engr. of the Delaware & Hudson Co.

*CENTRAL ISLIP, N. Y.—Bids are asked, until 3 p. m., Nov. 13, by the State Commissioner in Lunacy, the Capitol, Albany, for constructing a tuberculosis pavilion at the Central Islip State Hospital, Central Islip. Frank B. Ware, the Capitol, Albany, is State Arch. T. E. McGarr is Secy.

BUFFALO, N. Y.—The proposed St. Mary's Academy and Industrial Female Seminary will be erected on a site on Walden Ave., near the city line. Plans have been completed, and it is estimated that the building will cost $400,000.

NEWARK, N. J.—We are officially informed that contract has been awarded to FRED. KILGUS, 13 South Sixth St., Newark, by the State Military Board at the office of Adjutant-Gen. R. H. Breintnell, State House, Trenton, N. J., for constructing an armory for the First Troop at Newark. Bids were received Oct. 21.

ATLANTIC CITY, N. J.—Plans are being prepared by Milligan & Webber, 520 Walnut St., Philadelphia, Pa., for an 8-story hotel for a company headed by Newlin Haines. Cost, $1,000,000.

POLK, PA.—All bids for remodeling the buildings of the Pennsylvania Institution for the Feeble Minded were rejected because they did not come within the appropriation of $250,000. New estimates will be asked.

HARRISBURG, PA.—The Trustees of the State Insane Hospital here, on Oct. 24, awarded the contract for two new buildings for acute cases to G. A. GLENN & CO., 930 North 8th St., Philadelphia, at $145,200. Other bids were F. T. Nesbit & Co., New York, $192,534; Milton W. Young, Overbrook, $172,185; G. W. Beard & Co., Reading, $163,900; H. E. Baton, Philadelphia, $167,703; Charles McCaul & Co., Philadelphia, $163,879; W. O. Weaver & Son, Harrisburg, $152,993; Lynch Brothers, Philadelphia, $155,440. Construction will be begun at once in order to provide room for inmates.

WASHINGTON, D. C.—Bids were received as follows, Oct. 24, by Bernard R. Green, Constructing Officer of the new National Museum Building, Washington, D. C., for construction work and material for the Museum building: Green Slate Roofing.—Items, (a) cut all around, (b) cut ends and sawed sides, (c) sawed all around; sizes, (1) 12 x 20 x ⅝ ins.; (2) 12 x 12 x ⅝ ins.; (3) 18 x 27 x ⅝ ins. Mathers Slate Co., Boston, Mass., (a1) $139.04 per 1,000; (a2) $74; (a3) $468.75; (b1) $146.04; (b2) $77.87; (b3) $483.75; (c1) $153.08; (c2) $81.62; (c3) $498.75. E. J. Johnson Co., 38 Park Row, New York, (a) only, (1) $177; (2) $93.70; (3) $684. Charles W. Carll, 832 West State St., Trenton, N. J., (a1) $147; (a2) $85; (a3) $415; (b1) $157; (b2) $95; (b3) $425; (c1) $167; (c2) $105; (c3) $435.

Reinforced concrete roofing.—W. F. Kearns & Co., 161 Devonshire St., Boston, $50,000; Aberthaw Construction Co., 8 Beacon St., Boston, $47,000; Brennan Construction Co., 3056 K St., N. W. Washington, $39,477; National Fireproofing Co., Fulton Building, Pittsburg, Pa., $47,032, $43,042; R. E. Boiseau, Washington, $28,500; Rudolph S. Blome Co., 79 Dearborn St., Chicago, $45,600.

Skylights and copper roofing.—Items, (a) skylights; (b) copper roofing; (c) copper roofing, tinned. T. New Construction Co., New York, (a) $18,000. Warren M. White, Washington, D. C., (a) $15,336; (b) $29,351; (c) $33,026. J. S. Thorn Co., 1227 Callowhill St., Philadelphia, (a) $13,381; (b) $38,245; (c) $44,865. Chas. W. Carll, 832 West State St., Trenton, N. J., (a) $14,737; (b) $39,438; (c) $46,993. Arthur E. Rendle, 18 West 34th St., New York, (a) $10,700. Kasch Roofing Co., Akron, Ohio, (a) $15,000; (b) $34,882; (c) $41,895. National Ventilating Co., 1 Madison Ave., New York, (a) $22,790. Atlas Roofing Co., Newburg, N. Y., (a) $13,493; (b) $36,357; (c) $43,757. David Lupton's Sons Co., Allegheny and Tulip Sts., Philadelphia, (a) $11,120; (b) $24,262; (c) $29,516. J. C. McFarland & Co., Washington, (a) $10,987; (b) $26,765; (c) $33,100. Vail & Young, Baltimore, Md., (a) $15,629. A. Schweren & Sons Co., New York, (b) $29,900; (c) $35,800.

Stone work.—Items, (a) limestone for rotunda section; (b) marble for same (prices for limestone including setting both limestone and marble). Evans Marble Co., York and William Sts, Baltimore, (b) $25,300. John A. Rowe, Bedford, Ind., (a) $17,400, set; $16,500, unset. Robert C. Fisher Co., Locust Ave. and 140th St., New York, (b) $34,645. E. Heldmaier, Main and Cologne Sts., Chicago, (a) $19,500; (b) $38,750. Henry Struble Cut Stone Co., The Rookery, Chicago, (a) $15,951, unset; $20,271 set.

WASHINGTON, D. C.—The District Commissioners have commissioned Marsh & Peter, Archs., 520 13th St., N. W., to prepare plans and specifications for school building to be erected at Mount Pleasant, four stories, brick with stone and terra-cotta trimmings, modern conveniences. Cost, about $125,000.

NATIONAL SOLDIERS' HOME, VA.—The following awards have been made for constructing buildings at the Southern Branch, National Home for Disabled Volunteer Soldiers, Va.: J. A. BRINSON, Hampton, Va., $139,159; R. H. RICHARDSON & SON, Hampton, Va., addition to hospital, $38,325. These prices are for the work complete.

ATLANTA, GA.—Braughton Institutional Church is having plans prepared by R. H. Hunt, News Bldg., Chattanooga, Tenn., for erection of a building to cost about $300,000.

NEW ORLEANS, LA.—The Dock Board, Hugh McCloskey, Pres., has approved plans for building 1,600 ft. of steel sheds over the St. Andrew St. wharf and extending the Celeste St. shed 480 ft. The total cost is to be about $140,000. Specifications for work will be adopted later.

We are officially advised that MILLIKEN BROS., 11 Broadway, New York, N. Y., have contract at $76,000 for furnishing and placing structural steel work on proposed Monteicone Hotel, to be eleven stories high, 97 x 126 ft., with 600 rooms, steel superstructure; granite-base fronts, faced with ornamental full-enameled white terra-cotta and pressed bricks. Total cost, about $500,000. Contract for concrete foundation work has been awarded to GEORGE J. GLOVER, Hibernia Bldg., New Orleans, at $38,000. Toledano, Wogan & Shepard, Archs., 121 Carondelet St., New Orleans, are preparing plans and specifications for concrete, pressed brick and terra-cotta work, and bids soon will be invited.

CINCINNATI, OHIO.—Harry Hake, Union Trust Bldg., will take new figures soon for a bank and office building for the Provident Savings Bank & Trust Co., for which all bids were rejected. Estimated cost, $300,000.

SPRINGFIELD, OHIO.—James Knox Taylor, the Superv. Arch. Treasury Dept., Washington, D. C., has rejected all bids received for the construction of a post-office building at Springfield, as being in excess of the amount appropriated.

FORT WAYNE, IND.—The D. J. Fleener Co. has let a contract to CALDWELL & DRAKE, of Columbus, Ind., to erect a new hotel in this city. It will be eight stories high. Estimated cost, $250,000.

DETROIT, MICH.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Dec. 17, for the construction complete, except elevators, of the extension to the U. S. post-office and court-house at Detroit.

CHICAGO, ILL.—PAUL F. P. MUELLER, Schiller Bldg., 109 Randolph St., has the general contract for a theatre to be built at 255 to 261 South Clark St. for the Empire Circuit Co., represented by Herman Fehr, 14 Grand Ave., Milwaukee, Wis., and Mort H. Singer, La Salle Theatre, 137 East Madison St., Chicago. It will be 3-story, 75 x 108 ft., of fireproof steel construction, and will cost $150,000. Kirchoff & Rose, 201 Grand Ave., Milwaukee, Wis., and Fromman & Jobson, 109 Randolph St., Chicago, are Associate Archs. The buildings now on the site are being razed.

It is reported that Marshall & Fox, Archs., First National Bank Bldg., are preparing plans for an apartment building. It will be erected at the corner of Elm St. and Lake Shore Drive, will be ten stories high, and will cost between $600,000 and $800,000. It will front 150 ft., with a depth of 100 ft., and will be of fireproof steel construction.

Contract has been let to PAUL F. P. MUELLER, Schiller Bldg., for the mason and concrete work for a mercantile building to be built at the corner of North Water St. and Dearborn Ave., extending to the Chicago River, for the Steele-Wedeles Co., wholesale grocers, 179 Water St. It will have ten stories, with a frontage of 180 ft. on Dearborn Ave., be of fireproof reinforced concrete construction, have three sides of pressed brick, steam heat for part of the building, electric light, and cost $300,000. The foundation is now being constructed by the GEORGE W. JACKSON CO., and work on the superstructure will be begun next spring. Henry L. Ottenheimer, 132 Monroe St., is Arch.

EAST ST. LOUIS, ILL.—Bids were received as follows, Oct. 28, at the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for construction of the Post-Office building at East St. Louis, Ill.: C. L. Gray Construction Co., St. Louis, Mo., $239,000; Gedney Lumber & Mfg. Co., East St. Louis, Ill., $238,791, July 1, 1909; Ambrose B. Stannard, St. James Bldg., New York, $227,000; J. H. Wiese, South Omaha, Neb., $221,890; Cramp & Co., Commonwealth Bldg., Philadelphia, $222,960, May 1, 1909; Hiram Lloyd Building & Construction Co., St. Louis, Mo., $213,507. Time of completion, Sept. 1, 1909, unless specified.

PEORIA, ILL.—The GENERAL CONSTRUCTION CO., 106 Mason St., Milwaukee, Wis., has the contract, at $176,623, for the construction of an extension to the U. S. public building, at Peoria.

EAU CLAIRE, WIS.—The contract for construction of the U. S. public building at Eau Claire has been awarded to the CHARLES W. GINDELE CO., La Salle St., Chicago, Ill., at $125,150 less for alternate A $600 and for alternate B $11,000. The work is to be completed April 1, 1909.

MADISON, WIS.—We are officially informed that a 4-story stone women's gymnasium is to be erected for the University of Wisconsin. Structure will be 240 x 65 ft., and will cost $150,000. Bids will be received in December. Arthur Peabody is State Arch.

MINNEAPOLIS, MINN.—E. H. Hewitt, Arch., 18 North Fourth St., Minneapolis, has let contract to PIKE & COOK for foundation to a 2-story church for the St. Mark's Episcopal congregation, Rev. C. E. Haupt, Pastor. Cost, $150,000. Bids on superstructure will be taken early in the spring.

PARSONS, KAN.—Bids are asked by the State Board of Control, Topeka, Kan., until 2 p. m., Nov. 12, for construction of an administration building at the Parsons State Hospital, Parsons. E. B. Schermerhorn is Chn.; F. W. Knapp is Secy.

HASTINGS, NEB.—Plans are being prepared, it is stated, for erection of a hotel by A. D. Clark and others. It will contain 200 rooms and will cost $150,000.

ST. LOUIS, MO.—We are officially advised that Charles H. Deitering, Arch., Missouri Trust Bldg., is preparing new plans and will receive bids at once for an apartment building, 128 x 200 ft., at Grand and Castleman Aves., for the Shisler, Bidwell Building Co. Brick, stone and terra cotta and reinforced concrete will be used in construction. Estimated cost, $200,000.

Mauran, Russell & Garden, Chemical Bldg., have prepared plans and will receive bids for an 18-story store and office building, 86 x 127 ft., at Broadway and Pine St., for the Lilburn Realty & Investment Co., Eighth and Locust Sts. Brick and terra cotta, architectural and structural iron and steel work will be used. Cost, $500,000.

JEFFERSON BARRACKS, MO.—Bids are asked by O. W. Bell, Q. M., until 11 a. m., Nov. 19, for construction of two barrack buildings, including heating, plumbing, electric wiring and disinfecting plant.

DALLAS, TEX.—Hella Temple, Ancient Arabic Order of the Mystic Shrine, will erect temple and auditorium, to cost about $150,000. John G. Hunter, Commerce and Lamar Sts., is Chn. of Com. in charge of organizing stock company, selecting plans, etc.

SAN ANTONIO, TEX.—Mrs. Josephine H. Frost will erect a business building after plans by Sanguinet, Staatt & Seuter, 801 First National Bank, Houston. Contract has been let to BUCHANAN & GILDER. The building will be 80 x 100 ft., five stories, with iron columns, steel beams, fireproof floors and partitions, vapor heating, electric wiring, lighting fixtures not selected, elevators. Cost, $150,000.

TACOMA, WASH.—We are officially advised that the Y. M. C. A. will erect a building here, to cost about $150,000. It will be 70 x 72 ft., six stories high, constructed of stone, brick and concrete. There will be a gymnasium, four stories, 48 x 125 ft., and shower baths, bowling alleys, etc. G. W. Bullard and I. H. Hill, Provident Bldg., Tacoma, are Archs. Contract will be let at once to a local contractor.

PULLMAN, WASH.—The State Board of Control, Olympia, has awarded contracts for the construction of the library and assembly hall, authorized by the Legislature, to be erected at the State College, Pullman. $130,000 was appropriated to build and equip this building. HASTIE & DOUGAN, Washington Bldg., Seattle, have been awarded the contract for the building at $117,500. G. H. SUTHERLAND & CO., of Walla Walla, has contract for the heating for $6,000. John K. Dow, Empire State Bldg., Spokane, is Arch. These contracts have been approved by the Board of Regents of the College. HASTIE & DOUGAN have been awarded the contract at $7,342 for the construction of a laboratory at the college.

SPOKANE, WASH.—The contract for the construction of a department store for Kemp & Herbert has been awarded to M. C. MURPHY. The building will cost about $150,000. It will be built on the corner of Main Ave. and Washington St.

SAN FRANCISCO, CAL.—The San Francisco Y. M. C. A. building plans have been revised. The building will be an 8-story structure. A lot at the corner of Leavenworth St. and Golden Gate Ave. has been purchased for $135,000. Work on construction will be commenced as soon as labor conditions are settled. In the meantime the association is conducting its work in temporary quarters at 1220 Geary St. and at 2715 Mision St.

SAN FRANCISCO, CAL.—An 8-story and basement steel frame building has been planned for the Jacob Z. Davis Estate Co. The site has a frontage of 122.6 ft. on Kearny St. and 97.6 ft. on Sutter St., with the same depth on Ver Mehr Pl., off Kearny St. The new building will be fireproof and equipped with vacuum cleaning apparatus and steam heating system, and the corridors and stairways will be finished in marble. Three electric elevators will be installed. According to the plans of Armitage & Rowell, Archs., 1472 Post St., the basement and first and second stories are intended for retail business. The upper floors contain offices, each with a safe-deposit vault of large dimensions, provided with separate compartments for tenants on each floor. It is estimated that the cost of the building will be about $400,000. Work on the foundations will be commenced within the next six weeks.

The President of the Board of Works and the Chairman of the Building Committee have inspected the Hall of Justice. It has been decided that the restoration of the structure as it stands would cost too much, and that the renewed building would not then be a Class A structure in every respect. A large amount of s[illegible]ge is expected to result in the demol[illegible] but the walls are too much warped [illegible] fire and injured by the fall of masonry [illegible] the upper stories to repay restoration. The Board of Works will invite estimates for taking down the structure, and if the [illegible] are satisfactory will call for bids. It is [illegible] intention to secure a small lot of land [illegible] the north and east of the present structure [illegible] filling out the square on which it stands, [illegible] perhaps to secure the block of land im[illegible]diately to the eastward of the whole. In [illegible]her case the work will be done with [illegible] idea of constructing a Class A building [illegible] be used as the courthouse on the site.

TORONTO, ONT.—Bids are a[illegible] by the Department of Public Works, O[illegible]wa, until Nov. 5, for additions to the [illegible]st-office building in this city. T. A. [illegible]ings is Clerk of Work. Fred Gelinas [illegible]y., Department Pub. Wks., Ottawa.

## WATER SUPPLY—IRRIGATION.

(* *denotes that this work is ad[illegible]ed in Engineering News.*)

WOBURN, MASS.—The lowest [illegible] opened Oct. 21 by the Board of Public [illegible]ks for building an extension to the p[illegible] house, was that of H. A. Bellamy & Co., Boston, at $6,680.

SOUTH NORWALK, CONN.—S[illegible]VATOR CHARIOTT has been awarded the contract by the city for laying water pipe for the South Norwalk Water-Works along Connecticut Ave., Golden Hill St., and Lin[illegible]n Ave., at 48 cts. for 8-in. pipe.

ALBANY, N. Y.—The State Water Supply Commission has granted authority to the Hannacroix Water Co. to construct a 30,000-gal. storage reservoir at Alcove, Albany County. This company is backed by Coeyman's capital, and supplies water to the village of Ravena and also to the West Shore R. R. at that point. The erection of the reservoir will insure a supply of water in times of heavy drought.

NEW YORK, N. Y.—The attention of intending bidders is directed to work described below in order that they may look over the ground before topographical features are obscured by snow.

Main Dam, Kensico Reservoir.—A large masonry dam to be located near Valhalla, Westchester County, N. Y.

Headworks of the Catskill Aqueduct.—To include aeration fountain, substructures of several large chambers and about one mile of aqueduct from the Beaverkill dikes, near Brown's Station, N. Y., to the Esopus Creek valley.

Portions of the Esopus Division of the Catskill Aqueduct.—About 6.6 miles of cut-and-cover aqueduct and 0.7 mile of grade tunnel, extending from a point near the Olive Bridge dam to the north end of the Rondout siphon, near Kripplebush, N. Y.

Portion of the Wallkill Division of the Catskill Aqueduct.—About 3.8 miles of cut-and-cover aqueduct and 0.8 mile of grade tunnel, extending from about the middle of the Bonticou tunnel, south of High Falls, to the north end of the Wallkill siphon, near Libertyville, N. Y.

Rondout Siphon.—About 4.5 miles of pressure tunnel near High Falls, N. Y., and about 0.75 mile of grade tunnel.

Wallkill Siphon.—About 4.4 miles of pressure tunnel under the Wallkill Valley, about 3.5 miles west of New Paltz, N. Y.

Further information can be obtained from A. D. Flinn, Department Engr.-in-Charge of headquarters, Room 1515, No. 299 Broadway, New York. J. Waldo Smith is Engr.; Thomas Hassett is Secy.

PHILADELPHIA, PA.—The following bids were opened Oct. 22 by the Assistant Director of Public Works, for (A) furnishing filtration pumps at Lardner's Point, (B) for the 40,000,000-gal. centrifugal pump at Torresdale: (A) Holly Mfg. Co., 118 Liberty St., New York, $268,769; Bethlehem Steel Co., Keystone Bldg., Pittsburg, Pa., $244,800; R. D. Wood & Co., 400 Chestnut St., Philadelphia, Pa., $294,000; Southwark Foundry & Machine Co., 430 Washington Ave., Philadelphia, Pa., $272,000; Allis-Chalmers Co., Milwaukee, Wis., $284,000. (B) R. D. Wood & Co., $24,500; Allis-Chalmers Co., $18,700; Dravo-Doyle Co., Lewis Block, Pittsburg, Pa., $15,476.

SMITHFIELD, N. C.—See under Light and Power Plants.

LUMBERTON, N. C.—The water system and sewerage system will be extended, bonds for $25,000 having been recently voted. R. C. Lawrence is Town Atty.

ATLANTA, GA.—Bids are asked until Nov. 25, by the Board of Water Commissioners and Special Committee of the Council for furnishing and erecting complete, within the building and on foundation furnished by city, and making necessary connections to 36-in. suction and 30-in. discharge mains of waterworks, and also 10-in. steam main at pumping station No. 2, Atlanta water-works, about three miles from the city, on the Southern Belt R. R., one 20,000,000-gal. and one 25,000,000-gal. centrifugal pump, to be operated by electric motor, compound triple-expansion condensing engine or steam turbine and for direct pumpage against a head of 120 lbs. domestic and 160 lbs. fire pressure. F. P. Rice is Chn. Joint Com.

*MOBILE, ALA.—Bids are asked until 2 p. m., Nov. 28, by Capt. L. F. Gaillard, Fort Morgan, Ala., for the construction of a 150,000-gal. steel tank on a 75-ft. trestle.

NATCHITOCHES, LA.—The Water and Electric Committee has been authorized to lay 2,500 ft. of 4-in. mains and install five additional fire hydrants.

*MEMPHIS, TENN.—Bids are asked until noon, Nov. 25, by William D. Connor, Capt. Engrs., U. S. A., U. S. Engineer Office, Room 20, Custom-House, Memphis, Tenn., for about 190,000 cu. yds. of levee work and 40,000 cu. yds. of drainage ditch in Upper St. Francis Levee District.

A circular reinforced-concrete reservoir with a capacity of 50,000 gals. will be erected

by the Memphis Artesian Water Co. Estimated cost, $9,000. Charles R. Miller & Co. are the contractors.

NASHVILLE, TENN.—The city contemplates rebuilding the reservoir plant, the present plant having been declared insufficient. Estimated cost, $2,500,000. John T. Ahearn is Supt. W.-Wks.

PORTSMOUTH, OHIO.—Bids are asked until noon Nov. 2, by the Board of Public Service for one car-load of cast-iron water pipe and fittings, to be mostly of 6-in. and some 4-in. Charles F. Schirrmann is Clk. Bd.

STERLING, ILL.—The Commissioners of Union Special Drainage District of the townships of Hume, Tampico and Prophetstown, contemplate enlarging the county ditch, of which the above drainage district is a part. Estimated cost, $25,000.

NORTH MILWAUKEE, WIS.—Bids are asked until Nov. 11, by E. H. Kamp, Village Clk., for constructing a concrete septic tank 42 ft. in diameter and 16 ft. deep. W. G. Kirchoffer, Madison, Wis., is Engr.

*WAUSAU, WIS.—Bids are asked until 2 p. m., Dec. 3, by the Commissioners of Danes Drainage District at the office of the clerk of the Circuit Court, Wausau, Wis., for the construction of a main ditch and all the branch ditches proposed to be constructed.

CLARION, IOWA.—Bids are asked until 2 p. m., Nov. 4, by E. M. Callendar, County Audr., for the construction of a ditch in Wright County.

EMMETSBURG, IOWA.—Bids are asked until Nov. 6, by Simpson R. Stedman, County Audr., for improvements in District No. 13.

BENSON, MINN.—Bids are asked until 10 a. m., Oct. 31, for the construction of County Ditch No. 7. Michael Runstad is Audr, Swift County.

FERGUS FALLS, MINN.—Bids are asked until 1 p. m., Nov. 4, by William A. Butler, County Audr., for the construction of Ditch No. 2.

ST. PETER, MINN.—The proposed judicial ditch through Nicollet and Sibley Counties to drain the Rush River, will be built. Estimated cost, $25,000.

FREMONT, NEB.—The contract for the construction of the stack for the water-works was awarded Oct. 16 by the City Council to R. WHITEFIELD at $5,298. J. W. Andrews is City Engr.

BEAVER CITY, NEB.—The NATIONAL CONSTRUCTION CO., South Bend, Ind., has been awarded the contract by the city for the installation of a water-works plant, at $15,000.

THOMPSON, MONT.—This city will have a modern water system. Trenches for the mains are being excavated in the principal streets, and over a mile of 4-in. pipe will be laid. The contract for installing the system has been awarded to E. S. DORMAN.

JEFFERSON BARRACKS, MO.—The following bids were received by O. W. Bell, Q. M., U. S. A., Jefferson Barracks, Mo., for installing two new boilers in the general mess-hall building: Hurley & Co., St. Paul Minn., $4,255. Missouri Boiler & Sheet Iron Works, St. Louis, Mo., $3,650. Modern Heating Co., St. Louis, Mo., $4,169. Joseph F. Waugler Boiler and Sheet Iron Works Co., St. Louis, Mo., $5,500.

LAWTON, OKLA.—The AMERICAN LIGHT & WATER CO., Kansas City., and the McQUATTERS PLUMBING & MACHINE CO., Hillsboro, Tex., have been awarded the contracts for the construction of a dam and reservoir in the Wichita mountains on Medicine Creek and for laying water mains from Lawton to the dam site. Estimated cost, $275,000.

PUEBLO, COLO.—A reservoir with an estimated capacity of 306,800,000 cu. ft. may be built on Turkey Creek in the northwestern part of Pueblo County. Estimated cost, $80,000. F. L. Tebow, of Denver, has filed preliminary map with County Clerk.

COTTONWOOD, WASH.—The Village Council has been asked for a franchise by the Cottonwood Water & Light Co., Ltd., to allow the privilege of installing a water system.

LOS ANGELES, CAL.—We are officially advised that the RISDON IRON WORKS, Steuart and Folsom Sts., San Francisco, has been awarded the contract for the installation of a pumping engine at the Buena Vista pump station, bids for which were opened Oct. 14, at $25,980. Homer Hamlin is City Engr.

QUEBEC, QUE.—The contract for installing a water-works system in the parish of Notre Dame de Quebec has been awarded by that parish to MADDEN & SON, at $94,000.

LONDON, ONT.—The Board of Water Commissioners are considering the extension of the water-works system. Estimated cost, $575,000.

GUELPH, ONT.—A complete set of filter beds, covering about 1½ acres will be constructed here. Estimated cost, $10,000.

## SEWERAGE.

*(* denotes that this work is advertised in Engineering News.)*

ST. ALBANS, VT.—Surveys are in progress for a plan to reconstruct the entire sewer system of St. Albans. The plans are to be completed this season, to submit the matter of construction to the citizens at the next annual election in March, 1908. These will include a trunk sewer taking all of the sewage from the present outlet in the brook and carrying it through a system of septic tanks and filter beds, before discharging the effluent. Norman N. Atwood is Mayor. Arthur W. Dudley, 986 Elm St., Manchester, N. H., is Engr.

TORRINGTON, CONN.—We are officially advised that ROBBIATTI AMBROSE, 124 North Elm St., Torrington, has been awarded the contract by the Board of Warden and Burgesses for the construction of sanitary sewers, bids for which were opened Oct. 21, at $8,955. Other bids were: Eveline Bros., $8,784; Pierson Engineering & Construction Co., $10,694; Gill & Co., 11,204; Little & Long, $14,042.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Nov. 6, by Bird S. Coler, Pres. Boro. Brooklyn, for the construction of sewers in various streets.

Bids are asked until 11 a. m., Nov. 11, by Joseph Bermel, Pres. Boro. Queens, for the construction of a catch-basin on the southeast corner of Sanford St. and Hamilton Ave., and for the construction of a sewer in Third Ave., from Broadway to Graham Ave.

TRENTON, N. J.—Bids are asked until 8 p. m., Nov. 5, by the Common Council, for the construction of a sewer in Hamilton Ave. Harry B. Salter is City Clk. Abram Swan, Jr., is City Engr.

SCRANTON, PA.—Bids are asked by C. R. Acker, Dir. Pub. Wks., until 10.30 a. m., Nov. 4, for the construction of a sewer in Forest court.

WASHINGTON, D. C.—The only bid received on Oct. 23 by the Commissioner of Indian Affairs, Washington, D. C., for constructing and completing a sewer system and plumbing at the Unitah and Ouray Agency, Utah, was that of W. D. Lovell, Minneapolis, Minn., at $9,612.

SMITHFIELD, N. C.—See under Light and Power Plants.

DAYTON, OHIO.—The contract for the construction of sanitary sewers in Wayne, Wyoming and other streets has been awarded by the Board of Public Service to SHAFER & DILL, at $13,260. The only other bidder was John T. Reese, at $13,372. Robert E. Kline is City Engr.

HAMILTON, OHIO.—The ANDREWS ASPHALT PAVING CO. has been awarded the contract by the Board Public Service for the construction of a concrete hydraulic arch and storm sewer, 10 ft. in diameter, to be built of brick and concrete, at $20,000.

AKRON, OHIO.—Bids are asked until noon, Nov. 6, by Board of Public Service, for constructing a sewer in Nathan St. Charles H. Watters is Secy. Bd.

CAMBRIDGE, OHIO.—S. D. BRATTON, Cambridge, has been awarded the contract by the city for the construction of 1,000 ft. of 20-in. sewer, to be placed 15 ft. under the surface, at the mouth of Willis Creek.

RIVERSIDE, IND.—The contract for the construction of the Jersey St. sewer was let Oct. 23, by the Board of Trustees to CORNELIUS DELANEY.

LINCOLN, ILL.—Specifications are on file in the office of Engineering News, New York, for the construction of a sewer. Edwin B. Maltby is City Engr.

PEKIN, ILL.—EDWARD HARDING has been awarded the contract for the construction of a sewer, at $150,000. John R. Seibert is City Engr.

NORTH CHICAGO, ILL.—The contract for constructing sewers and drains at the naval training station, Great Lakes, North Chicago, has been let to H. D. HALLET, Aurora, Ill., at $55,390.

EAST ST. LOUIS, ILL.—We are officially advised that the bids opened Oct. 21, by the Board of Local Improvements for (A) sewering, filling, grading, curbing and guttering Illinois Ave., from the southerly line of State St. to the westerly line of 13th St., (B) for constructing a sewer in eleventh St., from the northerly line of St. Louis Ave. to the southerly line of Illinois Ave., were as follows: (A) W. H. Hell Construction Co., Sixth and Walnut Sts., East St. Louis, $19,611; J. & R. Keeley, $19,955; Walter Coonan, 1729 Missouri Ave., East St. Louis., $19,125. (B) W. H. Hill Construction Co., $5,536; J. & P. Keeley, $5,697; Walter Coonan, $5,103. The estimate of W. J. Crocken, City Engr., for (A), $17,882; (B), $5,100.

BELOIT, WIS.—Bids are asked until 2 p. m., Nov. 4, by the Board of Public Works. for laying storm water sewers in various streets. R. R. Caldwell is City Engr.

DES MOINES, Iowa.—The plans for the construction of a sewer in Woodland Ave., have been completed. Bids will probably soon be asked.

VIRGINIA, MINN.—The contract for building the sewer in the "3C" District was awarded Oct. 22 by the City Council to CHARLES C. BUTLER, Virginia, at $3,079.

MANKATO, MINN.—C. M. MASTERS has been awarded the contract for the construction of a sewer in Bradley St.

ST. PAUL, MINN.—Bids are asked until 2 p. m., Nov. 4, by the Board of Public Works, for the construction of a sewer in Magnolia St., from Rice St. to Park Ave. John S. Grode is Pres. Bd. L. E. Rundlett is City Engr.

STILLWATER, MINN.—WILLIAM FRASER, Rochester, Minn., has been awarded the contract by the State Board of Control, for the construction of the sewer system for the new state prison here, at $14,000.

TWO HARBORS, MINN.—HAUGSTEN & JOHNSON, Two Harbors, Minn., have been awarded the contract by the City Council, for the construction of 2,560 ft. of lateral sewer on Eighth Ave., at $3,555.

CHEYENNE, WYO.—Bids are asked until 8 p. m., Nov. 5, by the City Engineer, for the construction of a sewer in West 26th St., as to cost per linear feet. J. D. Wright is City Clk.

ST. LOUIS, MO.—Bids are asked until Nov. 4, by the city of Webster Groves, Mo., for the construction of sewers in various districts.

PORTLAND, ORE.—A complete sewer system will probably be built in Sellwood, from the Portland Crematorium south to the city boundary. Estimated cost, $100,000.

## GARBAGE DISPOSAL.

*(* denotes that this work is advertised in Engineering News.)*

NEW YORK, N. Y.—Bids are asked until 11 a. m., Nov. 30, by Louis F. Haffen, Pres. Boro. of the Bronx, for unloading and delivering ashes furnished by the Department of Street Cleaning.

BALTIMORE, MD.—The net bids for garbage disposal for a period of ten years, beginning Jan. 1, 1908, were: Southern Product Co., $560,000; Baltimore Sanitary Contracting Co., Fidelity Bldg., $485,000.

WINNIPEG, MAN.—A motion will be introduced before the City Council authorizing the calling for tenders for another incinerator plant. The De Carie Mfg. Co., 23 South Second St., Minneapolis, Minn., has just completed a plant, but the civic authorities refuse to complete payment for same on the grounds it does not fulfill the conditions claimed. The total cost of the incinerator was to be $126,430, of which the city has already paid $76,000. H. N. Ruttan is City Engr.

## STREETS AND ROADS.

*(* denotes that this work is advertised in Engineering News.)*

NEW YORK, N. Y.—Bids are asked until 11 a. m., Nov. 6, by Bird S. Coler, Pres. Boro. of Brooklyn, for regulating and repaving Brooklyn Ave., from Atlantic Ave. to Prospect St., with asphalt, on a concrete foundation.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Nov. 11, by Joseph Bermel, Pres. Boro. Queens, for laying, grading, curbing and regulating various streets.

*ALBANY, N. Y.—Bids are asked until noon, Nov. 18, by Frederick Skene, State Engr. and Surv., for the improvement of public highways in Seneca, Ulster, Montgomery, Chemung, Orange, Orleans, Monroe, Broome, Jefferson, Herkimer, Rensselaer, Ontario, Onondaga, Rensselaer and Erie Counties, aggregating 113.59 miles.

Bids are also asked, until Nov. 21, for public highways in Oswego, Fulton, Onondaga, Albany, Dutchess, Westchester, Cortland, Chenango, Ontario, Greene, Livingston, Niagara, Columbia, Clinton, and Otsego Counties, aggregating 122.65 miles.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Nov. 13, by Bird S. Coler, Pres. Boro. Brooklyn, for regulating, paving, grading and repaving various streets.

ALBANY, N. Y.—The following bids were received Oct. 21, by the Board of Contract and Supply: For improving and paving Sherman St., T. Henry Dumary, Albany, $6,636; Mulderry Bros., Albany, $6,576; E. F. Dillon, Albany, $7,121; Michael F. Dollard, Albany, $7,083; for improving and paving Robin St., P. H. Reynolds, $3,988; E. F. Dillon, $4,409; Mulderry Bros., $4,039; T. HENRY DUMARY, $3,608 (awarded contract); Michael F. Dollard, $3,853. Walter Melius is City Engr. Isidore Wachsman is Clk. Bd.

ITHACA, N. Y.—The Board of Supervisors has decided to have an improved highway built over the road from Ithaca through Dryden to the Cortland County line. Estimated cost, $196,850. Bids will soon be asked.

SYRACUSE, N. Y.—Bids are asked until 1.30 p. m., Nov. 4, by the Board of Contract and Supply, for constructing a stone or cement sidewalk, five feet wide, on the west side of Graves St., from Highland Ave. to Douglass St. George J. Metz is City Clk.

*ATLANTIC CITY, N. J.—Bids are asked until 8 p. m., Nov. 11, by the City Clerk for repaving Pacific Ave. and constructing drainage conduits, the amount of work requiring 23,500 sq. yds. of asphalt pavement, 1,040 lin. ft. of bluestone heading stones; one drainage system, complete, consisting of 25 lines of conduits, including new vitrified fire clay block gutters upon concrete around the 50 curved corners at the ends of the conduits. J. W. Hackney is City Engr.

*CAMDEN, N. J.—Bids are asked until 11 a. m., Nov. 11, by the Stone Road Commission, for furnishing about 10,000 tons of stone and resurfacing Camden, Ellisburg and Marlton Turnpike, in Camden County, N. J. J. J. Albertson is County Engr.

NEW BRIGHTON, PA.—FUNKHOUSER & HUNTER, New Brighton, Pa., have been awarded the contract for constructing a macadamized road, three miles long in this township, at $35,735.

MT. UNION, PA.—W. H. HERR & SONS, Altoona, Pa., have been awarded the contract for constructing three miles of macadamized state road between this city and Shirleysburg. Work will not be started until next spring.

MIDDLETOWN, PA.—The contract for the construction of one mile of macadamized state road east of here, in Londonderry Township, has been let to W. H. SMITH, Harrisburg, Pa., at $7,029.

IRWIN, PA.—The lowest bid opened Oct. 22, by the Westmoreland County Commissioners, for the construction of the new state road between Irwin and McKeesport was that of the Fort Pitt Construction Co., at $47,300. 21,000 ft. of road will be constructed under this contract.

WILMINGTON, DEL.—Bids are asked until noon, Nov. 5, by Francis A. Price, State Highway Comr., New Castle County, for the construction of a road, in New Castle hundred from Wilmington, from a point at or near Eden Park, to the town limits of New Castle, a distance of 2.64 miles.

*COLUMBIA, S. C.—Bids are asked until noon, Nov. 25, by the Street Commissioner, for paving Main St. with either vitrified brick, wood block, asphalt or bitulithic, embracing approximately 65,000 sq. yds. of pavement, 17,000 lin. ft. of combined concrete curb and gutter, and 4,500 lin. ft. of concrete storm drains. Chas. Narey is Chn. St. Comn.

PALATKA, FLA.—We are officially advised that bids are asked until noon, Dec. 3, for 22,805 sq. yds. of vitrified brick paving, and 9,857 lin. ft. of granite or concrete paving. J. E. Craig is City Engr.

ZANESVILLE, OHIO.—Bids received Oct. 18, by the Board of Public Service for paving Ridge Ave. were as follows: J. T. Woodrow, $15,032; ADAMS BROS., $13,723 (awarded contract); T. M. Linn, $15,368; Wesley Dutro, $15,811; Petitti & Abele, $16,033. E. H. Smith is City Engr.

CINCINNATI, OHIO.—Bids are asked until noon, Nov. 15, by the Board of County Commissioners for improving Hog Back road. Fred Dreihs is City Clk.

MARIETTA, OHIO.—PUTNAM & PRICE have been awarded the contract by the Board of Public Service for paving Pike St., from Wayne St. to the corporation line at the following prices: Marietta block, $1 per yd.; Bedford curb, 40 cts. per ft; catch basins, $23 each; 12, 15, 18 and 20-in. drain pipe, 70, 80, 90 cts. and $1.10. A. F. Cole is City Engr.

CLEVELAND, OHIO.—Bids are asked until 11 a. m., Nov. 6, by Board of Commissioners, Cuyahoga County, for the completion of the Miles Ave. improvement. A. B. Lea is County Engr. Julius C. Dorn is Clk. Bd.

DAYTON, OHIO.—The contract for paving Robert Boulevard, from Third St. to Monument Ave., was awarded Oct. 21, by the Board of Public Service to J. O. SHOUP & CO., at $1.36 per sq. yd. Robert E. Kline is City Engr.

The contract for paving West Main St., from Bridge to Plum Sts. was let to HENNESSEY BROS., at $12,888.

INDIANAPOLIS, IND.—Bids are asked until 2 p. m., Nov. 6, by the Board of Commissioners of Howard County, for the construction of a gravel road in the township of Clay.

NOBLESVILLE, IND.—Bids will soon be asked by the Commissioners of Hamilton County for the construction of 1½ miles of crushed stone road. Estimated cost, $17,000.

LOGANSPORT, IND.—Bids are asked until noon, Nov. 29, by the Commissioners of Cass County, for the construction of a gravel road on the county line between Cass and Carroll Counties. George W. Gann is County Audr.

MONTICELLO, IND.—Bids are asked until 10 a. m., Dec. 3, by the Commissioners of White County, for the construction of a stone macadamized road in Jackson Township, known as the Personett road, and for the construction of a gravel road in Prairie Township, known as the Kelley road. J. L. Ackerman is County Audr.

BEARDSTOWN, ILL.—F. J. TRAUT and T. J. SCHWEER, Beardstown, Ill., have been awarded the contract by the city for street paving, at $79,805.

CAIRO, ILL.—The contract for paving Second St., from Ohio St. to Washington Ave., has been awarded to ALEXANDER S. FRASER, at about $7,500. Wilbur B. Thistlewood is City Engr.

DAVENPORT, IOWA.—Bids are asked until 2 p. m., Nov. 5, by the Board of Public Works, for paving various streets and alleys. Thomas Murray is City Engr.

*HOT SPRINGS, ARK.—Bids are asked until Nov. 20, by F. V. P. Ellsworth, City Engr., for street paving in Improvement District No. 21 and Improvement District No. 26, requiring approximately 10,000 sq. yds., with either asphalt, bitulithic or vitrified paving block, on a 6-in. concrete base; also approximately 5,000 sq. yds. with vitrified paving block, between street railway tracks in above improvement districts.

EL PASO, TEX.—The contract for the construction of a county road to Ysleta has been let to RICHARD CAPLES, at about $75,000, total cost.

OLYMPIA, WASH.—C. H. LANSING has been awarded the contract by the State Board of Highway Commissioners for grading and macadamizing State Aid Road No. 2, at $9,750. Bids were opened Oct. 15.

SEATTLE, WASH.—We are officially advised that bids are asked until Nov. 9, by the Board of Public Works, for grading, curbing and laying concrete sidewalks and wood cross-walks on various streets. M. H. Strouse is Clk. Bd. R. H. Thomson is City Engr.

We are officially advised that the only bidder for grading Lakeside Ave., and other streets, bids for which were opened Oct. 19, was J. Normile, New York Block, Seattle, at $23,427.

We are officially advised that the following bids were received Oct. 19, for constructing concrete walks on East Olive and other streets: E. H. Rawle, Arcade Annex, Seattle, $10,791; Hans Pederson, 511 Seventh Ave., South, Seattle, $11,476.

TACOMA, WASH.—Bids are asked until 10 a. m. Nov. 9, by the State Highway Board, for grading and bridging State Road No. 4, known as the East Trunk Road, in King County, and State Road No. 5, known as Harrison Ave., near Centralia. Joseph H. Snow is State Highway Comr.

POMONA, CAL.—The contract for paving Third and Thomas Sts. and various alleys in the business district of the city has been let to LON FLEMING, Pomona, at about 21 cts. per sq. ft., or $20,000.

OTTAWA, ONT.—We are officially advised that the contract for constructing the asphalt and bituminous paving plant has been awarded to the IROQUOIS IRON WORKS, 178 Walden Ave., Buffalo, N. Y., for $14,800. Bids were received Oct. 16, by Newton J. Ker, City Engr.

## MANUFACTURING PLANTS.

*(* denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—The National Laundry Co., Journal Bldg., has let contract to the EASTERN EXPANDED METAL CO., 101 Tremont St., for constructing a reinforced concrete building in the South End, to cost $80,000. Leon B. Murray, 46 Cornhill, is Mechanical Engr.

SPRINGFIELD, MASS.—We are officially advised that contract for constructing a plant for the Springfield Elevator & Pump Co., at Springfield, has been let to the FLYNT BUILDING & CONSTRUCTION CO., Palmer, Mass. The building will be built of brick, will be one story high and will measure 80 × 230 ft. The company has bought a strip of land extending from Windsor St. to the tracks of the Hartford Division of the New York, New Haven & Hartford R. R. The tract is about 300 ft. deep and has a frontage of 320 ft. on the east side of Windsor St. Lewis D. Parker is Pres.; Henry A. Walcott is Engr., Hartford, Conn.

BUFFALO, N. Y.—The Automatic Transportation Co., capitalized at $2,000,000 to manufacture and install aerial carrier systems for the collection and delivery of mail, parcels and packages in rural districts and for handling ore, etc., in the vicinity of mines, will build a manufacturing plant here on a site of ten acres at the Main St. crossing of the Erie and Delaware, Lackawanna & Western railroads. Work has been commenced upon the initial building, which will be of concrete, steel and glass, 60 × 120 ft.

ALBANY, N. Y.—It is announced by George H. Haselton, Supt. of Motive Power at the West Albany yards of the New York Central & Hudson River R. R. Co., that plans have been prepared for construction of three buildings at West Albany. One building will be used as an erecting shop, one as a blacksmith shop and the other as a machine shop. It has not been decided as yet whether the buildings will be erected by the company's forces or by contract. George W. Kittredge, Grand Central Station, New York, is Ch. Engr.

COHOES, N. Y.—The Fuld & Hatch Knitting Co., Hamilton and Liberty Sts., of Albany, N. Y., is about to construct a spinning mill at Cohoes. The structure will have a frontage of 240 ft. on Saratoga St. and 270 ft. on Oneida St. This location is near the canal and about 100 ft. from the freight depot of the Delaware & Hudson Co. The proposed building will be entirely of brick and fireproof. It will be three stories in height, with 16-ft. ceilings and a width of 131 ft., with roof entirely of sky-lights. It is probable that the contract will be awarded to J. W. BISHOP CO., of Providence, R. I. The building must be completed by April, 1908.

WEST NEWTON, PA.—The United States Radiator & Boiler Co., West Newton, the foundry of which was recently destroyed by fire, has awarded contract to the McCLINTOCK-MARSHALL CONSTRUCTION CO., Park Bldg., Pittsburg, Pa., to erect a new fireproof foundry building, 299 × 326 ft., which is to be completed in 60 days. The company expects to equip the new building with modern machinery, gas engine, cupola, blower, elevator, etc.

PHILADELPHIA, PA.—Sauer & Hahn, Archs., 1208 Chestnut St., have prepared plans for the erection of a $100,000 cotton spinning and hosiery mill for the Standard Hosiery Co. at 1320-1326 North Lawrence St.

PATTON, PA.—The ALTOONA CONCRETE CONSTRUCTION & SUPPLY CO. has been awarded the contract for erection of a silk mill to be built at Patton under the direction of Heimons & Levy of New York. Frank Brandt, Mgr. of the Altoona firm, is making arrangements to begin on the new plant at once.

ELWOOD CITY, PA.—The Elwood City Brewing Co. has been formed and will erect and equip a brewery here, costing at least $50,000. A. F. Cooper and A. W. Lyda, Pittsburg; H. F. Wehman and C. A. Reilogle, Kittanning, Pa., and T. J. Fulmer, S. P. Turner and H. G. French, of this city, are the owners of the proposed new enterprise. The above will incorporate the early part of November.

CUMBERLAND, MD.—The Cumberland Steel Co. has awarded contract to the McCLINTOCK-MARSHALL CONSTRUCTION CO., Park Bldg., Pittsburg, Pa., for erection of building to replace plant destroyed by fire. New structure will be erected on same general plan as old building, except that it will be 43 ft. longer and fireproof throughout. Machinery for plant made according to patterns and plans prepared by W. J. Muncaster of the Cumberland Steel Co. is now being built and will be ready for installation when structure is completed.

The Baltimore & Ohio R. R. Co. will erect a 60-stall roundhouse, coal tipple and sandhouse here, and the old roundhouse to be remodeled into repair and machine shop. D. D. Carothers is Ch. Engr., Baltimore.

WASHINGTON, D. C.—James S. Topham, manufacturer of trunks, satchels and fine leather goods, 1219 F St., N. W., has purchased a lot containing 10,000 sq. ft. at corner Eckington Pl. and Q St. and will erect factory on site, to cost about $50,000, and which will provide for an increased capacity of about 50%.

FAYETTEVILLE, N. C.—It is stated that the Victory Mfg. Co. of Fayetteville has decided to enlarge its plant by the addition of another print mill during 1908. The present mill, completed last summer, operates 12,000 spindles and 400 looms.

DENTON, N. C.—The Denton Cotton Mills Co. of this town is incorporated for $50,000, with the privilege of increasing the capital to $100,000. The new mill is to have 5,000 spindles and it will manufacture cotton yarns. It will employ about 100 people. Work is to begin at once and the factory will be in operation by spring. The company has secured a 20-acre site.

WOODRUFF, S. C.—W. S. Gray Cotton Mills has awarded contract to EBAUGH & EBAUGH, of Greenville, S. C., for construction of mill building, three stories high, 75 × 325 ft. This building is to be equipped with 10,000 spindles for manufacturing Nos. 20 to 30 cotton yarns. W. H. Gray is Pres.

CHICKAMAUGA, GA. — The Crystal Springs Bleachery Co. has awarded contract to ADAMS & SCHNEIDER, of Chattanooga, Tenn., for construction of 80 × 470-ft. main building, to cost about $50,000.

HUNTSVILLE, ALA.—The Huntsville Bagging Co., which has purchased the West Huntsville Furniture factory, is to be incorporated with a capital stock of $150,000, and a jute bagging factory will be established. The plant will give employment to about 100 people at the start, and the company hopes to have the new industry in operation by Jan. 1.

BOGALUSA (Adams post-office), LA.—The Ozone Ice Mfg. Co. will establish 50-ton ice plant of the compression system. The company will erect brick building with fireproof roof, 112 × 48 × 8 ft. Cost of building, $15,000; cost of machinery, $25,000. Contract for installing machinery has been awarded to the FRICK CO., of Waynesboro, Pa. M. K. Pearce is Mgr.; H. P. Rucker is Engr.

MEMPHIS, TENN.—The Memphis Cold Storage Co. has increased capital stock from $300,000 to $500,000. The company will occupy 5 or 7-story cold-storage warehouse, 63 × 240 ft. Cost, about $200,000.

AKRON, OHIO.—The Taplin-Rice-Clerkin Co., successor to Taplin, Rice & Co., will make improvements to its plant, including two new buildings, one for machine shop purposes, 80 × 200 ft., to be equipped with traveling cranes, and the other a factory structure, 80 × 200 ft.

CINCINNATI, OHIO.—C. J. Deremo, Arch. and Engr., has let general contract to THEODORE HERSCHFELD & SONS for a 1-story foundry for the J. J. Bruce Foundry Co., 942 Kenyon St. Cost, $25,000.

YOUNGSTOWN, OHIO.—Fire recently destroyed the plant of the National Light Thorium Co., ruining all machinery. The management expects to rebuild the plant as soon as the insurance is adjusted.

INDIANAPOLIS, IND.—The Sanitary Canning Co. has let a contract to F. H. LANGTRY for the construction of a large factory, 62 × 230, on South East St. and Belt Road. Cost, $40,000.

INDIANAPOLIS, IND.—The Indiana Dairymen's Association will erect a creamery and distributing plant in this city. A. P. Walker, of Rushville, Ind., is Pres.

DETROIT, MICH.—The Solvay Process Co. has had plans prepared for four buildings, to cost $139,000. William B. Cogswell is Gen. Mgr.

BAY CITY, MICH.—W. D. Young & Co., Salzburg St. and Michigan Central R. R. tracks, are having plans prepared for rebuilding their factory, which was destroyed by fire. The building will have one story, 180 × 269 ft. Cost, $50,000. Bids will be received by the Wilcox Engineering Co., Eddy Bldg., Saginaw, Mich.

CHICAGO, ILL.—Plans are being completed for a manufacturing plant to be erected at Lexington St. and Washtenaw Ave. by the Raymond Lead Co., 59 West Lake, to cost $200,000. There are to be three buildings, the largest to measure 112 × 200 ft. Treat & Aischuler, Fisher Bldg., Chicago, are Archs.

MARENGO, ILL.—The factory of Collins & Burgie Co., Marengo, manufacturers of stoves and ranges, which was burned at a loss of $90,000, will be rebuilt. R. M. Patrick and E. D. Patrick are interested.

KANSAS CITY, MO.—The Loose-Wiles Cracker & Candy Co., Eighth and Santa Fe Sts., has had plans prepared by Sheppard & Farrar, Minor Bldg., for erection of addition to plant, 150 × 128 ft.; six stories with basement and sub-basement. Cost, about $150,000.

HUBBARD, TEX.—Bids are asked by J. P. Hornaday, 27 William St., New York City, for complete equipment and installation of 25-ton ice-making and 50-ton refrigerating machinery for plants of Union Central Light & Ice Co. W. A. Bass is Mgr., Hubbard.

EL PASO, TEX.—See under Light and Power Plants.

LOS ANGELES, CAL.—F. W. Braun, 400 East Third St., is planning to erect a plant on Third St. for manufacturing mining machinery, it is reported. It is the purpose of the company to erect a 4-story and basement storage building, 90 × 100 ft., a 3-story warehouse, 150 × 116 ft., and a manufacturing building in the rear of the warehouse. An iron and brass factory and a sheet metal and wood working department are to be included in the plant. The total cost of the building, equipment and site will be about $1,000,000.

SAN FRANCISCO, CAL.—Contract for miscellaneous repairs to stone work, painting, etc., at the U. S. mint building was let to the NEW ERA DEVELOPMENT CO., of 1712 Webster St., at $37,987.

RENO, NEV.—The Nevada Engineering Works, Reno, has laid foundations for its plant and will start work of construction with the intention of having the building completed before winter. The new building will have a frontage of 154 ft. and will be made as nearly fireproof as possible. It will be equipped with modern machinery for the manufacture of mining and special machinery, and will cost about $25,000 or $35,000.

COEUR D'ALENE, IDAHO.—C. Bernhard will superintend construction of a brewery here. The building will cost about $175,000, being six stories high and constructed of brick, iron and cement. The main building will be 100 × 65 ft. Construction will begin at once.

MONTREAL, QUE.—The Mount Royal Foundry Co., Ltd., 110 Ann St., Montreal, is preparing plans for extensions and improvements to cost about $30,000, which will be undertaken in the spring.

HAMILTON, ONT.—It is stated that the London Machine Tool Co., of Hamilton, will make a $25,000 addition to its plant.

ORILLIA, ONT.—The Tulhope Carriage Co., Orillia, is considering erecting an addition to its plant for its wood-working department.

CALGARY, ALTA.—The Golden West Brewing Co. will erect a brewery here at a cost of $100,000. Karl Rakow is Mgr.

## MISCELLANEOUS CONTRACTS.

*(* denotes that this work is advertised in Engineering News.)*

**U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.**

FIRE HOSE.—New York, N. Y.—Bids are asked until 10.30 a. m., Nov. 11, by Francis J. Lantry, Fire Comr., for supplying a quantity of fire hose.

*DREDGING.—Newport, R. I.—Bids are asked until 11 a. m., Nov. 22, by Lieut.-Col. J. H. Willard, Corps Engrs., U. S. A., for dredging in Newport Harbor.

RETAINING WALL.—Akron, Ohio.—The contract for building retaining wall on Hickory St. has been awarded to GEORGE CRISP & SON, of Akron, by the Board of Service, at $5,628.

HARBOR IMPROVEMENTS.—Toronto, Ont.—The Department of Public Works, Ottawa, has decided to spend $400,000 on improving the harbor here. Fred. Gelinas, Secy. Dept. of Public Works.

*DREDGING.—New York, N. Y.—Bids are asked by Col. John G. D. Knight, Corps Engrs., U. S. A., Armory Bldg., New York, until noon, Nov. 25, for dredging in Mattituck Harbor, N. Y.

*SUBWAY.—Reading, Pa.—Contract for construction of a subway under the P. & R. Ry. tracks at Spring St. has been let to Hawman Bros., of Reading, at $110,180. Elmer H. Beard, City Engr.

COAL CHUTE.—Paducah, Ky.—The Illinois Central R. R. Co. may erect steel coal chute, costing $35,000, to be operated by a line engine. W. C. Waggoner is Supt. of Bridges and Bldgs., Princeton, Ky.

*EMBANKMENT.—Cincinnati, Ohio.—Bids are asked by Lieut.-Col. Wm. T. Rossell, Corps. Engrs., U. S. A., until 2. p. m., Nov. 12, for repairing and protecting Great Miami embankment at Lawrenceburg, Ind.

*DREDGE.—Cincinnati, Ohio.—Only one bid was received on Sept. 30, by Maj. J. G. Warren, Corps Engrs., U. S. A., Cincinnati, for constructing dredge from the Fairbanks Steam Shovel Co., Marion, Ohio, at $9,700.

ROAD ROLLERS.—New York, N. Y.—Bids are asked until 3 p. m., Nov. 7, by the Department of Parks for furnishing and delivering two 12-ton, 3-wheel steam road rollers for the Department of Parks, Boro. of the Bronx.

GYMNASIUM APPARATUS.—New York, N. Y.—Bids are asked by C. B. J. Snyder, Supt. School Bldgs., Bd. Education, until 11 a. m., Nov. 11, for gymnasium apparatus for various public schools in the Boro. of Manhattan.

LEVEE.—Shreveport, La.—The contract for the construction of the Curtis levee, in Ward One, located about twelve miles south of Shreveport, has been let by the Bossier Levee Board to C. B. Wimbich, of New Orleans, at 13.90 cts. per cu. yd.

FENCE REPAIRS.—Brooklyn, N. Y.—Bids are asked by the Department of Parks, Boro. Manhattan, until 3 p. m., Nov. 7, for repairs and alterations to and painting of fences around parks and on parkways in Boroughs of Brooklyn and Queens.

DITCH.—St. Paul, Minn.—The State Drainage Commission has awarded the contract to straighten the Roseau River ditch to J. SHERWOOD, of Litchfield, Minn., at 10¾ cts. per sq. yd. The contract involves the moving of about 500,000 sq. yds. of earth.

DREDGING.—Wilmington, Del.—The following are the bids received on Oct. 21 by Maj. C. A. F. Flagler, Corps. Engrs., U. S. A., for dredging entrance to Broadkill River (price given per cu. yd.): River & Harbor Improvement Co., Philadelphia, Pa., 19.2 cts.; Pennsylvania Dredging Co., Camden, N. J., 23⅝ cts.

GRANDSTAND.—New York, N. Y.—Bids are asked by C. B. J. Snyder, Supt. School Bldgs., Bd. Education, until 11 a. m., Nov. 11, for the general construction, etc., of a grandstand, etc., to be placed on the Athletic Field on Crotona Park, North, opposite Prospect and Clinton Aves., Crotona Park, Boro. of The Bronx.

SIGNAL SYSTEM.—New York.—Bids were received as follows Oct. 24 at the office of the Supervising Architect, Treasury Dept., Washington, D. C., for installing a flash light signal system for the elevators in the New York Custom-House: Otis Elevator Co., New York, $7,280. Elevator Supply & Repair Co., New York, $7,280.

DITCH.—Prophetstown, Ill.—Bids are asked until Nov. 11 by the Commissioners of the Big Slough Special Drainage District, counties of Henry and Whiteside, at the office of F. W. Sears, Engr., Prophetstown, for the enlargement of the main ditch of this drainage district, requiring the removal of about 353,000 cu. yds. of material.

DEEP WATERWAY PROJECT.—Springfield, Ill.—The State Senate has passed a bill which, if the House concurs in same, will be presented to the voters of the entire State of Illinois on Nov. 5, authorizing the issuance of $20,000,000 of State bonds at 4 per cent. for the building of a deep waterway from the terminus of the Chicago drainage channel near Joliet to Utica.

*HYDRAULIC DREDGE.—Charleston, S. C.—One bid only was received Oct. 25, by Capt. E. R. Stuart, Corps Engrs., U. S. A., for constructing hydraulic dredge, from the Ellicott Machine Co., Baltimore, Md., at $47,900, complete, for delivery at Georgetown, S. C. Hull to be built either at Baltimore, Md., or Charleston, S. C. Plans and specifications as per par. 39 of instructions.

DREDGING—Brooklyn, N. Y.—Bids are asked until 11 a. m., Nov. 6, by Bird S. Coler, Boro. Pres., for furnishing material and dredging Newton Creek Channel at and in the canal and basin included within the boundaries of Johnson, Montrose, Morgan and Varick Aves., and also in the Bragg St. basin. Engineer's estimate of material to be dredged is 14,500 cu. yds., accurate measurement.

SHELL.—Washington, D. C.—Bids were received Oct. 28, by the Chief of Ordnance, Washington, D. C., for furnishing 3,000 2½-in. shell: American & Brass Mfg. Co., Bridgeport, Conn., $1.42 each; Tredegar Co., Richmond, $1.25 (cast-iron); Richmond Iron Works, Richmond, $1.65; BETHLEHEM STEEL CO., South Bethlehem, Pa., 68 cts. (awarded contract). All bills on steel shell unless specified.

SHELL.—Washington, D. C.—Bids are asked by N. E. Mason, Ch. Bureau Ordnance, Navy Dept., until noon, Nov. 13, for furnishing 300 13-in., 1,000 12-in., 1,000 8-in., 1,000 7-in., 5,000 6-in., 1,000 5-in. 60-lb., 1,000 5-in. 50-lb., and 15,000 5-in. 50-caliber target shell. Deliveries of all shell will be required to be completed by Dec. 31, 1908. Also for furnishing 2,000 5-in. 60-lb. and 50,000 3-in. 50-caliber common shell. And also for furnishing 300 13-in., 4,500 12-in., 5,000 8-in., 9,000 7-in., 40,000 6-in., and 4,000 5-in. 60-lb. armor piercing shell.

*DUMP SCOWS, BARGES.—Louisville, Ky.—Bids were received as follows on Oct. 21, by Capt. H. Burgess, Corps Engrs., U. S. A., for (A) two dump scows; (B) for two steel barges; (C) time required for completion: Blaw Collapsible Steel Centering Co., Pittsburg, Pa. (A), $10,525; (B) $21,050; (C) 20 weeks. Howard Ship Yard Co., Jeffersonville, Ind., (A) $8,950; (B) $17,900; (C) 20 weeks. Charles Hegewald Co., New Albany, Ind., (A) $8,999; (B) $17,998; (C) six months. American Bridge Co. of New York, Cincinnati, Ohio, (A) $7,050; (B) $14,100; (C) 34 weeks.

ENGINEER WANTED.—Canada.—The Daily Consular and Trade Reports states that one of the American consuls in Canada writes that the officials at the place in question are desirous of improving the navigation of a certain river and of securing the services of a competent engineer who has had experience in similar work, and who can give them information as to the development work needed, the probable cost, and the time needed to secure the improvement in navigation needed. (Addresses are on file at Bureau of Manufactures, Dept. Commerce and Labor, Washington, D. C. In applying for addresses refer to file number 1571.)

*BARGE CANAL.—Albany, N. Y.—Contract No. 14, Barge Canal, which was awarded to Arthur W. Luce, of New York, has been assigned by him to the ACME ENGINEERING & CONTRACTING COMPANY, 100 Broadway, New York. The work involved in this contract is dredging a channel in the Mohawk River between the west end of Contract No. 11, Station 305, and a point near upper Mohawk aqueduct, at Rexford Flats, Station 1046; for constructing Dam No. 2 below Crescent aqueduct, Station 305; Dam No. 3 and Lock No. 7, above Vischer's Ferry, Station 839; Dam No. 9 and Lock No. 13, at Yosts, Station 2954; Dam No. 10 and Lock No. 14, at Canajoharie, Station 3370; Dam No. 11 and Lock No. 15, at Fort Plain, Station 3554; retaining dam at Mindenville, Station 3865; highway changes; culverts and incidental work. Length of contract, 15 miles. The contract price is $2,935,763. William B. Potts is Pres. of Acme Engineering & Contracting Co.; E. Brown Baker is Secy.

BARGE CANAL.—Albany, N. Y.—The Canal Board at its meeting held on Oct. 25 passed a resolution declaring abandoned Barge Canal contract No. 17, held by the Scofield Co., of Philadelphia, Pa. This contract was awarded in December, 1906, and is for the construction of the following structures on the Mohawk River: Dam No. 7, Lock 11, at Amsterdam; Dam 8, Lock 12, at Tribes Hill, and incidental work appertaining thereto. The contract price was $835,724. Liens to a large amount for labor and materials have been filed with the state authorities against the company, and some weeks ago it was forced into bankruptcy by its creditors and a receiver was appointed. All work on the contract has stopped. What course the state will pursue as to the future progress and completion of the contract has not as yet been determined. Under the provisions of the Barge Canal Law, the state may complete the work with its own forces, or it may proceed to readvertise and relet the contract in the regular manner, any excess in cost of the work over the contract price to be made a charge against the contractor.

## U. S. POSSESSIONS AND CUBA.

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ILLUMINATING APPARATUS.—Alaska.—Bids were received at the office of the Engineer of the Third Light-House District, at Tompkinsville, N. Y., on Oct. 14 for furnishing and delivering illuminating apparatus for Hinchinbrook Entrance, Alaska. Contract was awarded to BARBIER, BENARD & TURENNE, of Paris, France, at $4,400.

BRIDGE.—Panama.—Bids were received as follows Oct. 24 by the Isthmian Canal Commission, for one single track railway bridge, steel, for the Panama R. R.: R. C. Hoffman Co., Inc., Baltimore, Md., $19,240; Feb. 14, 1908. Penn Bridge Co., Beaver Falls, Pa.

$19,420; May 1. Stroebel Steel Construction Co., Monadnock Block, Chicago, $21,400, Feb. 15. U. S. Steel Products Export Co., New York, $15,000; Feb.15. All prices are New York delivery.

LOCOMOTIVE CRANES. — Panama. — Col. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., has awarded to the BROWN HOISTING MACHINERY CO., 26 Cortlandt St., New York, contract for furnishing two locomotive coaling cranes, 20-ton capacity, at $9,210 each and to the INDUSTRIAL WORKS, Bay City, Mich., two cranes, 10-ton capacity, at $6,985 each.

ENGINEERING SUPPLIES. — Panama. — Bids are asked until 10.30 a. m., Nov. 19, at the office of Col. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for furnishing engineering supplies under Circular 399: 700 car wheels, various size cores, cast-iron; 1,500 ft. double refined wrought iron; 100 ft. seamless drawn-steel tubing; electrical fixtures, conductor wire, iron conduit, etc.

LUMBER.—Panama.—The Isthmian Canal Commission, Washington, D. C., has awarded the following contracts for lumber: Circular 392, Class 59, 6,300 untreated piles, various lengths, to S. E. NAYLOR & CO., Gulfport, Miss., at $46,434; 120 days. Class 61, 1,100 caps and 6,000 stringers to D. L. GILLESPIE, 541 Wood St., Pittsburg, at $30,947.

LUMBER.—Panama.—Col. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., has made the following awards for lumber under Circular 388, opened Sept. 25: Classes 45 and 46, 115,000 cross ties, 7-in × 9-in. × 9-ft., will be readvertised. Class 47, 105 sets switch ties, and class 49, bridge timber, awarded to ARTHUR GAMWELL, Seattle, Wash., at $7,035 and $25,956 respectively. Class 48, 4,000 untreated piles, various lengths, to J. L. MERRIMAN, Wilmington, N. C., at $25,500.

## FOREIGN CONTRACTS.

(To insure prompt attention, letters upon consular business should be addressed to the American Consul at ———, ———. Such letters are opened and attended to by the person that may be in charge of the office. If addressed to the consul, personally, letters are forwarded to him, unopened, should he be absent, and a delay thus intervenes. If, in the meantime, he should have gone out of office, the matter may wholly escape attention.)

IRON BARRIER GATES.—Italy.—Bids are invited for the construction of iron barriers at Naples in connection with the new boundary circle for purposes of octroi. One large gate is to be erected on the Via Arenaccia at Sant' Anna, and nine smaller ones at other entrances to the town. The estimated cost is 435,400 lire (about $87,000). A deposit of 25,000 lire ($5,000) is required to qualify any bid. Bids must be sent in on stamped paper of the value of 1.20 lire, to the "Intendenza di finanza della Provincia di Napoli," Naples. The date on which bids will be received is not yet fixed.

WHARF EXTENSIONS.—Norway.—It is announced that the Christiania Harbor Board proposes to enter into an agreement with the Government for an extension of the Grónali Quay, in order to provide sufficient wharfage. It is further proposed to proceed immediately to improve the old Grónali Quay by placing railway lines, cranes, and other up-to-date appliances for the handling of merchandise It is expected that the alterations will be completed in 1910, and the extension of the quay in 1913. It is estimated that the whole of the new works will cost about 1,500,000 kroner ($400,000).


## READERS' WANTS

**If you are in the market for material, equipment or supplies, and fail to find it in our advertising pages, send us full particulars, and we will gladly put you in touch with the right parties.**

**Also ask for our BUYERS' GUIDE**


WATER POWER EQUIPMENT AND WOOD WORKING MACHINERY.—Winsted, Conn.—The Colebrook Mfg. Co., Winsted, Conn., advises us that it is in the market for complete water power equipment (electric transmission) and wood working machinery.

CASTINGS.—Gainesville, Fla.—Morgan T. Hochstrasser, University of the State of Florida, Gainesville, desires communications from firms who could furnish castings and blue prints of machinery which might be finished and assembled by the students of the University.

DITCHING MACHINE.—New York, N. Y.—We are advised that A. Hellstrom, Room 834, Park Row Bldg., New York City, wishes prices and illustrations, with catalogs and full description of a mechanical ditching machine, suitable for cutting ditches 7 ins. wide and 3 ft. deep. The machine will have to work partly in loam and partly in dry clay, and possibly in some gravel. All data is required in duplicate.

ICE MACHINERY.—Canton, China.—We are in receipt of an inquiry from Purnell & Paget, Engrs., Canton, China, stating that they desire to communicate with manufacturers of ice-making machinery and cold storage appliances. They desire full particulars of the estimated cost of a small plant capable of producing ten tons of ice per day, with proposed extensions and additions as required.

## CIVIL SERVICE EXAMINATIONS.

ASSISTANT TECHNICAL EDITOR, Washington, D. C.—The U. S. Civil Service Commission announces that the examination scheduled to be held on Nov. 13, to fill vacancy in the position of Assistant Technical Editor, $115 per month, in the Geological Survey, has been indefinitely postponed.

STATIONARY ENGINEER AND JANITOR ENGINEER, New York, N. Y.—An examination will be held by the Municipal Civil Service Commission on Dec. 5, for position of Stationary Engineer and Janitor Engineer. Applications will be received until Nov. 11, 4 p. m. Salary is $750 a year and up.

TOPOGRAPHICAL DRAFTSMAN.—New York, N. Y.—An examination will be held on Dec. 19, at 10 a. m., by the Municipal Civil Service Commission, 299 Broadway, for the position of Topographical Draftsman. Salary, $1,200 a year. Applications will be received until 4 p. m., Nov. 27. Frank A. Spencer is Secy.

STRUCTURAL STEEL DRAFTSMAN, New York, N. Y.—The Municipal Civil Service Commission will hold an examination on Dec. 17, at 10 a. m., for position of Structural Steel Draftsman. Applications will be received until Nov. 26, 4 p. m. The percentage required is 75 on the technical paper and 70 on all. Vacancies exist in the Department of Bridges. The salary is $1,500 a year and up. The minimum age is 21 years. Clause 12 of Rule VII, to the effect that "no person who has entered any examination for appointment to a competitive position and failed therein, or who has withdrawn therefrom, shall be admitted within nine months from the date of such examination to a new examination for the same position," is waived so far as it applies to this examination. Frank A. Spencer, Secy.

INSPECTORS OF MASONRY, Albany, N. Y.—On Sept. 28, 49 persons passed the New York State Civil Service examination for the position of Inspector of Masonry in the State Service. The following are the ten having the highest rating:

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| Charles M. Leet, 150 Fifth Ave., Troy, N. Y. (veteran) | 85.15 |
| Earl W. Sayles, 83 Washington St., Watertown, N. Y. | 98.74 |
| LaMotte K. Devendorf, 110 Jay St., Albany, N. Y. | 95.04 |
| Michael J. Bartley, 144 Ninth St., Troy, N. Y. | 93.00 |
| Albert H. Hallenbeck, 114 Wood Ave., Syracuse, N. Y. | 92.14 |
| Joseph M. Egan, 366 West 118th St., New York | 91.46 |
| Thomas M. Oliver, Clayville, N. Y. | 91.28 |
| M. Stanley Bierce, General Delivery, Albany, N. Y. | 91.20 |
| Alfred W. Gillis, 227 Caledonia Ave., Rochester, N. Y. | 91.06 |
| Albert R. Erskine, 152 Willoughby Ave., Brooklyn, N. Y. | 90.96 |

TRACER, Albany, N. Y.—Twenty-two persons passed the New York State Civil Service examination, held Sept. 28, for the position of Tracer in the State Service. The first ten eligibles are:

| | |
|---|---|
| Robert W. Scott, Box 217, Marathon N. Y. | 89.60 |
| Ivan L. Stalker, 18 Wendell Ave., Binghamton, N. Y. | 88.00 |
| John E. Hall, 21 Putnam St., Amsterdam, N. Y. | 87.9 |
| Frederic A. Cordes, 53 Manhattan St., New York | 86.40 |
| Raymond J. Curran, 73 Ford St., Rochester, N. Y. | 83.90 |
| Percy L. Arnold, Bergen, N. Y. | 81.50 |
| Jacob A. Erhardt, 131 Fenton St., Syracuse, N. Y. | 81.40 |
| Joseph A. Murray, Jr., 80 Yates St., Albany, N. Y. | 81.10 |
| Leon Fuller, 161 Nott Terrace, Schenectady, N. Y. | 81.00 |
| Theodore H. Freis, 21 Atkinson St., Rochester, N. Y. | 80.53 |

ASSISTANT SANITARY ENGINEERS, Albany, N. Y.—The following is a list of those who passed the New York State Civil Service examination, held Oct. 12, for the position of Assistant Sanitary Engineer, in the State Service:

| | |
|---|---|
| Albert O. True, 36 East 28th St., New York | 94.60 |
| Job R. Rogers, 1280 Fulton Ave., New York | 91.60 |
| Edward S. Chase, 14 Berkshire St., Worcester, Mass. | 90.80 |
| Henry W. Taylor, 55 Audubon St., Rochester, N. Y. | 88.40 |
| Charles F. Breitzke, 328 West 56th St., New York | 87.80 |
| Charles A. Holmquist, Barge Canal Office, Amsterdam, N. Y. | 86.35 |
| Charles L. Walker, 804 East Swan St., Ithaca, N. Y. | 86.11 |
| Francis W. Madigan, Barge Canal Office, Amsterdam, N. Y. | 85.54 |
| Albert B. Cudebec, 203 Hazen St., Ithaca, N. Y. | 83.98 |
| John B. Wright, 16 Arnold Ave., Amsterdam, N. Y. | 77.60 |
| Ford W. Harris, 9 Lancaster St., Albany, N. Y. | 76.90 |
| Henry J. Kline, 313 East 84th St., New York | 75.70 |

DRAFTSMAN-CARTOGRAPHER (MALE).—Philippines.—An examination will be held on Nov. 27 by the U. S. Civil Service Commission to secure eligibles to fill two vacancies in the position of Draftsman-Cartographer in the Philippine Service, at $1,800 per year each, and vacancies requiring similar qualifications as they may occur in the Philippine Service. The duties of one of these positions will be the systematic arrangement of all cartographic material in the hands of the Philippine Government so as to render it useful and accessible; those of the other will be the compilation and construction of maps from data of unequal value. Applicants who possess a technical training, who have had a fair amount of excellent experience in surveying work and plotting, and who are passable draftsmen will be eligible, but preference, other things being equal, will be given to those who have had experience in cartographic work. Men only will be admitted to the examination. Applications Forms 2 and 375 and a copy of the Manual of Examinations.

## INDUSTRIAL NOTES.

THE FORT PITT BRIDGE WORKS announces that offices in the Fisher Bldg., Chicago, have been opened, in charge of A. R. Young.

THE EDISON PORTLAND CEMENT CO. has opened a permanent office in the Post-Office Sq. Bldg., Boston, Mass., to handle the New England trade. J. J. Bernard has been appointed Boston representative.

THE AMERICAN RAILWAYS CO., through A. S. Kibbe, Engineer, has awarded the contract for the foundations of the power-house of the Home Electric Light & Power Co., at Tyrone, Pa., to the Raymond Concrete Pile Co., of Chicago and New York.

THE D. F. HOLMAN RAILWAY TRACK-LAYER CO., Ellsworth Bldg., Chicago, Ill., announces that it has recently installed one of its standard tracklayers on the Mississippi Central Railroad in Mississippi and another on the Copper River & Northwestern Railroad in Alaska.

H. M. NORTH, engineer of construction of the Lake Shore & Michigan Southern Railway, has awarded the contract for the concrete piles for the footings of the Cuyahoga viaduct of the Cleveland Shore Line road to the Raymond Concrete Pile Co., of Chicago and New York.

THE HUNT ENGINEERING CO. has placed an order with the Lehigh Car, Wheel & Axle Works, Catasauqua, Pa., for the necessary pulverizing machinery for the 2,000-barrel plant (shale and limestone) being built at Chanute, Kan., for the Ash Grove Lime & Portland Cement Co.

W. & B. DOUGLAS, pump manufacturers of Middletown, Conn., announce that they have recently acquired the pump department of the Union Mfg. Co., of New Britain, Conn., and will continue the manufacture of the pumps previously made by the Union Mfg. Co. at their enlarged plant in Middletown.

THE J. R. ALSING CO., founded in 1869 and organized under the laws of the State of New York in 1885, has changed its name to the J. R. Alsing Engineering Co., under the laws of the State of New York, and increased its capital stock from $20,000 to $100,000. The officers will be the same as in the old company.

G. M. DAVIS & SON, Palatka, Fla., whose plant was entirely destroyed by fire early this year, have recently resumed business in a wholly new plant occupying an entire block. In the equipment of this new plant the latest devices for a wood-working business have been installed and the firm is now prepared to execute orders.

THE STEWARD & ROMAINE MFG. CO., of Philadelphia, Pa., manufacturer of expansion and toggle bolts, on Oct. 1 became the manufacturer of all kinds of bolts made by the Boone Expansion Bolt Co., of Port Richmond, (S. I.), N. Y., and in the future will be the sole manufacturer of both the S. & R. and the Boone single and double lock nutted expansion bolts.

THE LEY CONSTRUCTION CO., Springfield, Mass., contractor for steam and electric roads, dams, abutments, viaducts, bridges, and all classes of heavy reinforced and plain concrete foundations, has organized a Southern department with R. S. Clemons as manager, and headquarters at Birmingham, Ala. This office will, in the future, handle all work south of and including Baltimore, Cincinnati, St. Louis and Kansas City.

IT HAS BEEN OFFICIALLY CONFIRMED that the Seaboard Portland Cement Co., which plant is to be built at Alsen, N. Y. (clay and limestone proposition), has placed an order with the Lehigh Car, Wheel & Axle Works, Catasauqua, Pa., covering the entire pulverizing requirements, comprising forty-five 42-in. Fuller-Lehigh pulverizer mills, capable of pulverizing the coal, raw material and clinker for their 6,000-barrel plant.

THE HUNKINS-WILLIS LIME & CEMENT COMPANY, St. Louis, has closed a contract with the Canadian Copper Co., Copper Cliff, Ont., for several thousand squares of its concrete tile roofing. This tile is especially adapted for resisting the action of fumes from smelters, etc. Other orders have been received from the Flathead Valley Water Power Co., at Kalispell and Somers, Mont.; Beloit Water, Gas & Electric Co., Beloit, Wis.; the Republic Iron & Steel Co., Moline, Ill., and the Southern Skein & Foundry Co., Chattanooga, Tenn.

J. G. WHITE & CO., 43 Exchange Pl., New York, have contracted with the Alliance Gas & Power Co., of Alliance, Ohio, to act as consulting engineers and supervise the purchase and installation of new machinery, consisting of a large turbine generator and a battery of 350-HP. boilers with complete auxiliaries for both electrical and steam ends. The new equipment will be installed in the old plant of the Alliance Gas & Power Co. through the winter and will be transferred later to a new plant, the construction of which will be begun by the engineers early in the spring.

THE B. F. STURTEVANT CO. reports the following sales of electric generating sets, which are reported by the electrical department of their New York office, 114 Liberty St.: Kiernan & Hughes Co., Jersey City, N. J., one 9 × 8 vertical engine, 30-KW. generator. Millard & McLean, New York City, one 4½ × 4½ vertical engine, 5-KW. generator. Henry Steers, Inc., New York City, one 4½ × 4½ vertical engine, 5-KW. generator; two 6 × 5 vertical engines, 7½-KW. generators. Sonora Co., New York City, three 10-HP. motors. Washburn Brothers Co., Saugerties, N. Y., 13 × 12 horizontal engine, 50-KW. generator, 20-HP. motor. Eberhard Faber Pencil Co., Brooklyn, N. Y., 16 × 14 horizontal engine, 100-KW. generator. Dept. of Water Supply, Babylon, L. I., 9 × 8 vertical engine, 40-KW. generator. Samuel Smith & Sons Co., Paterson, N. J., 16 × 14 horizontal engine, 100-KW. generator. Isidor Fajans, New York, 9 × 8 vertical engine, 30-KW. generator. Charles Hakemeyer & Co., Paterson, N. J., 17½-KW. generator; three 5-HP. motors.

THE PHILIPPINE RAILWAY CO. has ordered, through J. G. White & Co., 43 Exchange Pl., New York, construction engineers for its lines, eighty box cars and fifteen passenger coaches. The order was placed with the American Car & Foundry Co. J. G. White & Co. are now in the market for combination parlor and first-class passenger coaches for the Philippine Railways. Construction on these lines, which are being built under Philippine Government concession and with government guarantee of bond interest under Act of Congress of the United States, is progressing rapidly and twenty miles of track are already in operation. The contract includes a total of about 295 miles of track.

THE FIRST SESSION of the annual meeting of the managers of the General Electric Company was held on Oct. 28 at the main office of the company in Schenectady, N. Y. Owing to the national interest taken in the business affairs of the industrial world to-day the principal topic during the meeting was a discussion of the general situation in the electrical field. Due to the fact that Vice-President J. R. Lovejoy has not entirely recovered from his recent illness, Vice-President B. E. Sunny, of Chicago, presided. The satisfactory condition of the company's business was indicated by a statement that orders received during the current year to date exceeded those of the corresponding period of last year by fully 15 per cent. The volume of orders and prospective demand for supplies and for the various lines of smaller electrical devices which the company manufactures is very satisfactory. Dr. Thomas Addison, manager of the Pacific coast territory, reported a recent order for a Curtis steam turbine generator of unusual size. This machine which will be one of the largest power producers ever built for electrical purposes will have a normal capacity of 20,000 horse-power. Generally encouraging sentiment regarding the business outlook prevailed among the company's managers. The company's foreign business continues to show gratifying increases. Among those in attendance were the following:

C. A. Coffin, president; B. W. Rice, Jr., Vice-President; Hinsdill Parsons, vice-president; B. E. Sunny, vice-president, Chicago; Anson W. Burchard, assistant to president; M. F. Westover, secretary; H. W. Darling, treasurer; Edward Clark, general auditor; J. R. McKee, manager power and mining department; W. J. Clark, manager foreign department; C. D. Haskins, manager lighting department; J. G. Barry, manager railway department; D. R. Bullen, manager supply department; G. E. Emmons, manager Schenectady works; W. C. Fish, manager Lynn works; George F. Morrison, manager Harrison works; Thomas Addison, Pacific coast manager; E. D. Mullen, manager Philadelphia office; C. B. Davis, manager Boston office; Gen. Irving Hale, manager Denver office; T. Beran, manager New York office; A. F. Giles, manager Atlanta office; J. B. Pevear, manager Cincinnati office; E. E. Gilbert, turbine sales manager; P. D. Wagoner, transformer sales manager; A. D. Page, manager incandescent lamp sales; W. L. R. Emmett, engineer lighting department; D. B. Rushmore, engineer power and mining department; M. P. Rice, publication bureau; F. H. Gale, in charge of advertising.

THE UNDERSIGNED desire to assure the clients of the Westinghouse Machine Co. and all others interested, that there should be no occasion for apprehension because of the company's application for a receivership.

This action was deliberately and thoughtfully taken as a sensible and logical measure for conserving the interests of the customers, creditors and stockholders of a solvent institution which is doing a large and profitable trade.

From such examination of its affairs as the receivers have been able to make in the short time during which they have been in charge of the property, it would appear that the Westinghouse Machine Co. has been suffering from nothing more serious than a rapidly growing and profitable business. This has necessitated the employment of considerable borrowed capital and credit throughout the country, the sudden withdrawal of which would have seriously interfered with the manufacturing operations of the company.

There has not been even a momentary pause in the operations of the company, and the personnel remains the same as heretofore. There will be no departure from the general policy that has hitherto obtained in the conduct of the business, and the receivers will, during their incumbency, spare no pains to foster and maintain the cordial relations that have always existed between the Westinghouse Machine Co. and its customers.

WM. McCONWAY,
W. H. DONNER,
E. E. KELLY,
Receivers.

## TRADE PUBLICATIONS.

HELVE HAMMERS.—Parker Hoist & Machine Co., 971 N. Francisco Ave., Chicago. Paper; 3½ × 6¼ ins.; pp. 12; illustrated.

**The Hathorn helve hammer for die and stamping work is operated from the shaft of a belt wheel and controlled by a foot lever and brake. Testimonials are given from shops using this hammer. A vertical gasoline engine for shop work is also described.**

VALVES.—The Fairbanks Co., New York. Paper; 5¼ × 7¼ ins.; pp. 64; illustrated.

Valves for a great variety of purposes and of a number of different materials are illustrated, dimensioned and priced. Fire hydrants and accessories, extension valve boxes and indicator valve posts are also included.

STEAM ENGINES.—A. L. Ide & Sons, Springfield, Ill. Paper; 9 × 6 ins.; pp. 76; illustrated.

This catalog is built on the loose-leaf plan, with means for extension as the company sends additional sheets. It covers by text and photograph—sectional and assembled, and of existing plants—the "Ideal" engines, simple and compound, for direct-connected operation in power-plant work.

DOOR HARDWARE AND CARRIERS.—Allith Mfg. Co., Taylor St. and 43d Ave., Chicago. Paper; 7 × 10 ins.; pp. 64; illustrated.

This is an illustrated price list of hangers, carriers and fittings for hinged and sliding fire doors, shutters, etc. The carriers are also applicable to large doors in residences, freight house doors, etc. They are used also for a system of package carriers for stores and offices.

LARGE WATER METERS, REGULATING VALVES, ETC.—Simplex Valve & Meter Co., 112 North Broad St., Philadelphia, Pa. Paper; 6 × 9¼ ins.; pp. 40; illustrated.

The Simplex water meter now in use on a considerable number of water-works is first described and illustrated. This meter includes Venturi tubes and both rate-indicating and volume-registering apparatus. A rate controller, loss-of-head gage and an automatic air valve are also described.

ENGINEERING INSTRUMENTS AND NAUTICAL DEVICES.—George I. Herrick, C. E., Wheaton, Ill. Paper; two pamphlets, 3⅝ × 5¾ ins.; pp. 24 and 48; illustrated.

The smaller pamphlet contains reproductions of the patent drawings and specifications for the following: (1) a protractor tape for laying off and measuring angles; (2) a tape-holder or case for rapidly winding up the tape; (3) a surveyor's pin, with attachment for holding the tape; (4) a plate for making stencil plates used for making stencils for the reproduction of drawings containing circles, tangents and radii. There is also a reprint of a paper on "Recent Inventions in Engineering Measuring Instruments," read before the Illinois Society of Engineers. The larger pamphlet describes a flagstaff with apparatus for winding up the flag within the staff, but the most important device is a mariner's compass with a mechanical "course-corrector" for making allowances for the conditions necessary to be taken into account in holding a vessel to a true course (such as leeway, the set of the screw, current, etc.). This was awarded a medal at the St. Louis exhibition.

FIRE BRICK AND REFRACTORIES.—The Harbison-Walker Refractories Co., Pittsburg. Two leatherette-bound general catalogs; 4¼ × 6¾ ins., pp. 110 and 97; four pamphlets 6 × 8 ins., and three booklets 3½ × 6 ins.; all illustrated but pamphlet on coke ovens.

The foregoing item covers but briefly a very attractive array of trade literature. The first two are the most attractively clothed catalogs of manufactured products that we recall having seen for some time, resembling outwardly engineers' pocketbooks rather than catalogs. Both are devoted to fire brick in many forms and sizes and all sorts of fire-clay shapes, for coke ovens, locomotive fire boxes, iron and steel furnaces, kilns, etc. One book, issued by the Pittsburg house, is bound in black; the other is from the Portsmouth Harbison-Walker Co., of Portsmouth, Ohio, and is bound in red with a pocket and flap; both are supplemented with tables of various information, and both have blank pages for memoranda in the back.

Of the pamphlets, one on "Malleable and Air Furnaces" contains 20 pages, including dimension drawings and a photograph; "pointers" and test data make its contents interesting. Another describes in 22 pages, "Fire Brick Used in the Manufacture of Portland Cement," and will be of particular interest in view of the rapid growth of the Portland cement industry in this country; a folded-in dimension drawing is added to facilitate ordering. A third of 14 pages bears the title "Beehive Coke Ovens," and covers the refractory materials used in oven building. A fourth is one of 13 pages of statistical information on blast-furnace linings. These pamphlets are all printed on heavy linen bond paper.

Of the booklets, they are respectively "The Effect of Using Inferior Clay with High-Grade Fire Brick"; "A Little Talk on Brick for Boiler Settings"; and "A Little Talk on Brick for Cupola Linings."

**For other Proposal Advertisements see pages 55, 56, 57, 58, 59, 60, 61, 62 of Advertisements and Construction News page 148.**

## ROAD WORK.

STATE OF NEW YORK, OFFICE OF the State Engineer and Surveyor, Albany.—Pursuant to the provisions of chapter 115 of the Laws of 1898, as amended, sealed proposals will be received by the undersigned at his office in the State Hall at Albany on Monday, the 18th day of November, 1907, at 12 o'clock noon, for the improvement of the following public highways:

| Road No. | Name of Road. | County. | Miles. |
|---|---|---|---|
| 273.. | Seneca River—North Side | Seneca | 1.301 |
| 308.. | New Paltz—Rifton | Ulster | 4.150 |
| 345.. | Canajoharie — Sprout Brook | Montgomery. | 4.600 |
| 355.. | Wellsburg | Chemung | 4.512 |
| 358.. | Horseheads — Corning | Chemung | 7.143 |
| 382.. | Walden—Pine Bush | Orange | 6.570 |
| 391.. | Claredon — Holly, sec 1 | Orleans | 4.537 |
| 398.. | County Line | Orleans and Monroe | 5.550 |
| 401.. | Rapids—Rochester | Monroe | 1.900 |
| 402.. | Buffalo, sec. 3 | Monroe | 3.620 |
| 403.. | Churchville—Riga | Monroe | 2.080 |
| 408.. | Rich's Dugway—Penfield | Monroe | 2.450 |
| 411.. | West Point — Cornwall | Orange | 2.470 |
| 421.. | Conklin | Broome | 7.831 |
| 426.. | State, sec. 2 | Jefferson | 4.047 |
| 428.. | Watertown — Carthage, sec. 3 | Jefferson | 4.882 |
| 444.. | Riverside Drive | Broome | 1.135 |
| 445.. | Lisle—Center Lisle | Broome | 2.700 |
| 462.. | Old Forge—McKeever | Herkimer | 11.020 |
| 474.. | Clover St., sec. 2 | Monroe | 1.950 |
| 477.. | Valley Falls | Rensselaer | 6.580 |
| 478.. | Haynersville — Raymertown | Rensselaer | 3.210 |
| 479.. | Fairport, sec. 2 | Monroe | .270 |
| 485.. | West Bloomfield — Honeoye Falls | Ontario | 3.760 |
| 489.. | Tully | Onondaga | 4.440 |
| 490.. | Hoosick—North Hoosick | Rensselaer | 6.360 |
| 531.. | Base Line — Grand Island, sec. 2 | Erie | 2.590 |
| 532.. | Base Line — Grand Island, sec. 3 | Erie | 1.870 |

Sealed proposals will also be received by the undersigned at his office in the State Hall at Albany on Thursday, the 21st day of November, 1907, at 12 o'clock noon, for the improvement of public highways as follows:

| Road No. | Name or Road. | County. | Miles. |
|---|---|---|---|
| 539.. | Fulton—Volney | Oswego | 2.090 |
| 541.. | Mayfield—Northville | Fulton | 6.790 |
| 553.. | Fly | Onondaga | 2.330 |
| 554.. | Fabius | Onondaga | 4.910 |
| 555.. | East Syracuse..Chittenango | Onondaga | 7.790 |
| 566.. | Wolf Hill—Berne | Albany | 7.340 |
| 568.. | Millbrook—Lithgow | Dutchess | 4.400 |
| 587.. | Mt Kisco..Millwood | Westchester | 4.390 |
| 595.. | Homer—Tully, sec. 2 | Cortland | 5.430 |
| 598.. | Norwich—Preston | Chenango | 5.090 |
| 607.. | Manchester — Clifton Springs | Ontario | 4.350 |
| 608.. | Phelps — Clifton Springs | Ontario | 2.210 |
| 609.. | Washington Hollow —Millbrook | Dutchess | 1.630 |
| 613.. | Catskill—So. Cairo | Greene | 5.620 |
| 623.. | Geneseo—Avon | Livingston | 6.990 |
| 643.. | N. Tonawanda—Sanborn, secs. 1 & 2 | Niagara | 4.440 |
| 649.. | Stottville | Columbia | 1.020 |
| 651.. | Clintonville — Keenseville | Clinton | 5.580 |
| 653.. | Granby Roads | Oswego | 5.060 |
| 657.. | Croton River—Peekskill | Westchester | 6.010 |
| 660.. | Griswold Street — Bratt's Bridge | Niagara | 5.980 |
| 674.. | Milford Center—Milford | Otsego | 6.520 |
| 675.. | Otego—Oneonta | Otsego | 3.990 |
| 676.. | Otego—Wilsey's Corners | Otsego | 2.050 |
| 677.. | Edmeston—W. Burlington — Kelsey Corners | Otsego | 4.000 |
| 678.. | Morris — Gilbertsville | Otsego | 2.640 |
| 648.. | Cato — Meridian — Baldwinsville | Cayuga | 4.400 |

Plans and specifications may be seen and proposal forms obtained at the office of the Division Engineer of the Eastern Division in the State Hall, Albany, for all roads in the counties of Albany, Clinton, Columbia, Dutchess, Fulton, Herkimer, Montgomery, Orange, Otsego, Rensselaer, Ulster and Westchester; at the office of the Division Engineer of the Middle Division in the Weighlock Building, Syracuse, for all roads in the counties of Broome, Cayuga, Chenango, Cortland, Jefferson, Onondaga, Oswego and Seneca, and at the office of the Division Engineer of the Western Division in the Triangle Building, Rochester, for all roads in the counties of Chemung, Erie, Livingston, Monroe, Niagara, Ontario and Orleans.

Proposals for each road must be presented in a separate sealed envelope, endorsed on the outside with the name and number of the road for which the proposal is made.

Each proposal must be accompanied by a New York draft or certified check payable at sight to the order of the State Engineer and Surveyor for an amount equal to at least five per cent. of the amount of the proposal which such draft or check accompanies, which draft or check will be held by the State Engineer until the contract and bond are duly executed. The successful bidder will be required to give a bond for fifty per cent. of the contract price, such bond to proved by the State Engineer and Surveyor.

The right is reserved to reject any and all bids.

FREDERICK SKENE,
18-3t State Engineer and Surveyor.

## RESURFACING TURNPIKE.

Camden, N. J.

Bids are invited for furnishing about 10,000 tons of stone and re-surfacing Camden, Ellisburg and Marlton Turnpike in Camden County, N. J., in accordance with specifications on file in the office of Fred. W. George, Clerk of Board of Chosen Freeholders, Court House, Camden, N. J., or at the office of State Commissioner of Roads, Trenton, N. J.

Bids will be received, immediately opened and publicly read by the Stone Road Committee at its room in the Court House, Camden, N. J., on Monday, November 11th, 1907, at 11 A. M.

Each bid must be accompanied with a certified check in sum of $1,000.00 as a guarantee that the contract will be executed within five days after the same is awarded.

ALFRED L. SAYERS,
Director.

J. J. ALBERTSON,
County Engineer.

Dated, Camden, N. J., Oct. 23, 1907. 18-2t

## DRAINAGE DITCHES.

Dancy Drainage District, Wausau, Wis.

Sealed bids will be received by the Commissioners of the Dancy Drainage District at the office of the Clerk of the Circuit Court in Wausau, Wisconsin, until 2.00 o'clock, Tuesday, December 3d, A.D. 1907, at which time and place the Commissioners will attend and publicly open said bids.

The work upon which bids will be received are the Main Ditch and all of the branch ditches proposed to be constructed, plans for which have been heretofore approved by the Court.

Payments will be made in cash on monthly estimates to the extent of 80 per cent. of the work done during the preceding month. The final payment upon the completion and acceptance of the work.

Plans, profiles and specifications are on file and may be seen at the office of the aforesaid Clerk of the Court, at the office of the Secretary of the Board of Commissioners at Dancy, Wisconsin, at the office of the Harman Engineering Co., 109 South Jefferson Ave., Peoria, Illinois, and at the rooms of the Western Society of Engineers, Monadnock Bldg., Chicago, Illinois. Copy of Specifications, Form of Bid and Form Contract may be procured by calling upon or addressing the Harman Engineering Co.

The Commissioners reserve the right to reject any or all bids.

GEO. H. REYNOLDS,
J. P. MALICK,
GEO. G. KNOLLER,
Commissioners.

HARMAN ENGINEERING CO.,
Engineers, Peoria, Illinois.

October 28, 1907. 18-3t

## PAVING.

Atlantic City, N. J.

Sealed bids or proposals endorsed "Proposal for Repaving Pacific Avenue and Constructing Drainage Conduits," with the name of the person or corporation making the bid will be received by the City Clerk of Atlantic City, N. J., at Council Chambers in the City Hall, between the hours of 8.00 and 8.30 o'clock P. M., Monday, November 11, 1907, during a session of City Council.

The City Engineer's estimate of the work to be done under the above title, by which the bids will be tested, is the furnishing and setting of:

23,500 sq. yds. of Asphalt Pavement.
1,040 lin. ft. of Bluestone Heading Stones.
1 Drainage System, complete, consisting of 25 lines of conduits as per plans, including new vitrified Fire Clay Block Gutters upon concrete around the 50 curved corners at the ends of the conduits.

No proposal will be received or considered unless accompanied by a certified check upon a National or State Bank or Trust Company drawn to the order of Albert Beyer, City Treasurer, for the sum of Ten Thousand Dollars ($10,000.00).

Surety Company bond will be required in the sum of one-half of the contract price for the entire work based upon the estimated quantities herein given.

The City Council reserves the right to reject any or all bids if it shall deem it for the public interest so to do.

Blank forms of Proposal, Notice to Contractors, Contract, Specifications, Printed Envelopes and further information, if required, can be obtained upon application at the office of the City Engin[illegible] Room [illegible], Bartlett Building.

WALTER J. B[illegible],
ISAAC BACHAR[illegible],
JOHN S. WEST[illegible],
SAMUEL S. PH[illegible]S,
THOMAS ROBE[illegible]
Street Committee of [illegible] Council.
J. W. HACKNEY, City Eng[illegible] 18-1t

MUNICIPAL CIVIL SERVIC[illegible] COMMISSION,
299 Broadway.
New York, Octob[illegible] 1, 1907.

PUBLIC NOTICE IS HER[illegible] GIVEN that applications will be r[illegible]d from THURSDAY, OCTOBER 31, U[illegible] 4 P. M. WEDNESDAY, NOVEMBER 2[illegible] 1907, for the position of

TOPOGRAPHICAL DRAF[illegible]AN.

The examination will be hel[illegible] Thursday, December 19, 1907, at 10 A[illegible]

The subjects and weights of [illegible] examination are Technical, 5; Experienc[illegible] Mathematics, 2; Neatness, 1.

Vacancies constantly occur. [illegible] salary is $1,200 per annum and up.

The provision of clause 12 of [illegible]le VII., to the effect that "no person w[illegible] has entered any examination for appoi[illegible]nt to a competitive position and failed [illegible]rein or who has withdrawn therefrom, sh[illegible] be admitted within nine months from [illegible] date of such examination to a new exam[illegible]tion for the same position," is waived so far as it applies to this examination.

For further information apply [illegible] the Secretary.

18-4t FRANK A. SPENCER, Secretary.

U. S. ENGINEER OFFICE, Cincinnati, O., October 28, 1907.—Sealed proposals for repairing and protecting Great Miami embankment at Lawrenceburg, Ind., will be received here until 2 P. M., November 12, 1907, and then publicly opened. Information on application. WM. T. ROSSELL, Lt.-Col., Engrs. 18-2t

MISSISSIPPI RIVER COMMISSION, 1st and 2d Districts, U. S. Engineer Office, Room 20, Custom House, Memphis, Tenn., October 25, 1907.—Sealed proposals for about 190,000 cubic yards of levee work and 40,000 cubic yards of drainage ditch in Upper St. Francis Levee District will be received at this office until 12 o'clock noon, November 25, 1907, and then publicly opened. Information furnished on application. WM. D. CONNOR, Capt., Engrs. 18-4t

OFFICE OF CONSTRUCTING QUARTERMASTER, Mobile, Alabama, October 28th, 1907.—Sealed proposals will be received here until 2 P. M., November 28th, 1907, for the construction of a 150,000-gallon steel tank on a 75-ft. trestle. Envelopes containing proposals should be addressed "Proposal for steel tank, etc.," and addressed to CAPTAIN L. F. GARRARD, Fort Morgan, Alabama. 18-3t

## Situations Wanted

MECHANICAL DRAFTSMAN, assistant engineer, desires position, any location. Address "W. A. 18," Engineering News, New York. 18-1t

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